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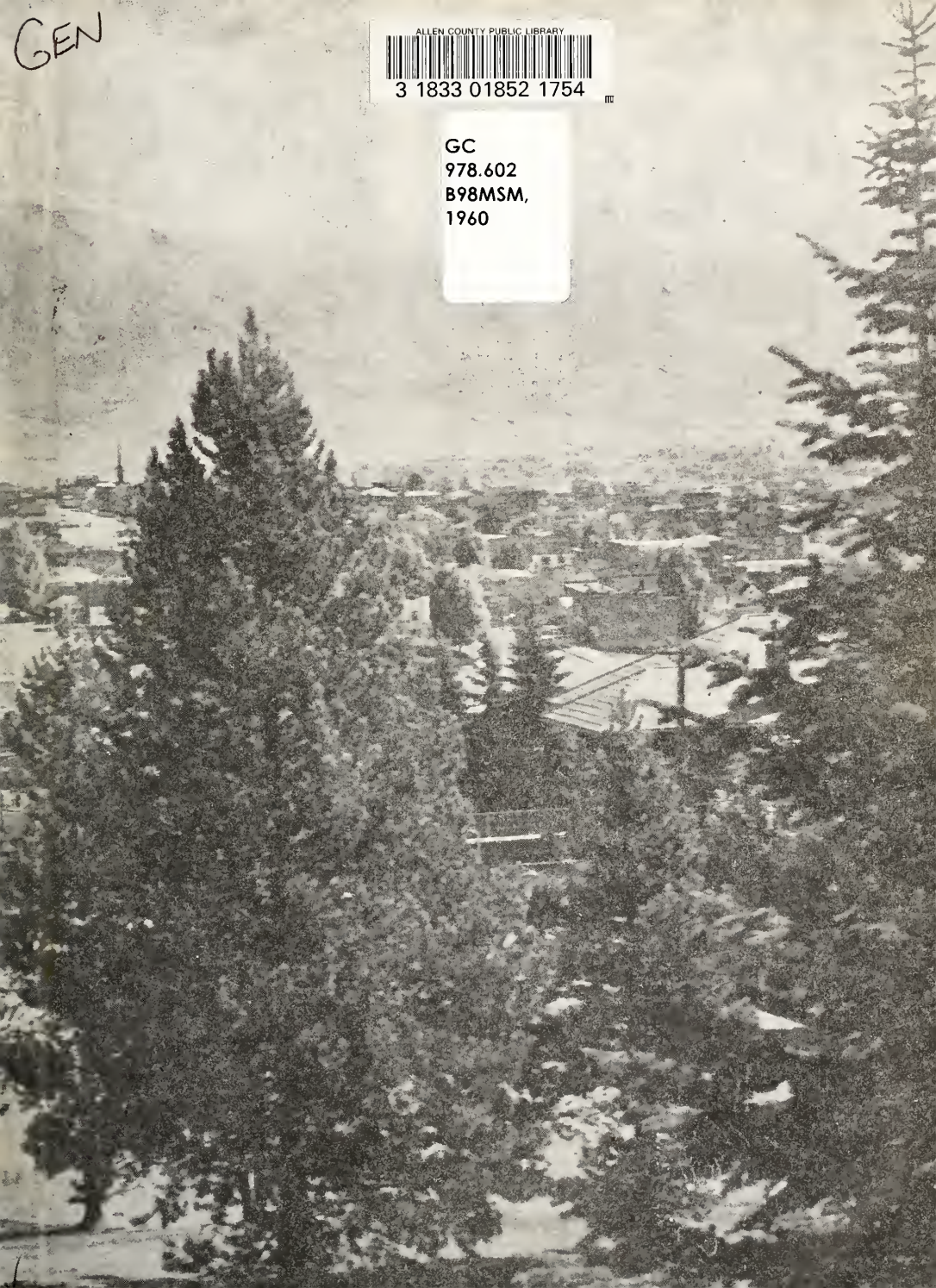

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THE MAGMA
1960

Published by the Associated Students
of Montana School of Mines

Editor
LLEWELLYN FISCHER

Associate Editor
JOHN BENNETT

A Historical Sketch

The foundation for the Montana School of Mines was laid in the Enabling Act. This act provided for an appropriation of forty thousand acres of public land to each of the Dakotas, and one hundred thousand acres to the State of Montana for the establishment and maintenance in each of a State School of Mines; this legislation was a congruous sequence to the Morrill Act of 1862, which provided for the establishment of state schools for instruction in agriculture and the mechanic arts.

The State of Montana promptly accepted the donation of lands for a School of Mines, and appointed officers to select the amount allowed by the government. The state legislature resolved to have the School of Mines established and put in operation as soon as the necessary preliminaries could be arranged. It chose the City of Butte as the location for the school and appointed a commission consisting of five persons to prepare plans and specifications for the erection of the building.

The original School of Mines building, (now the Main Hall), was erected in 1896-7 on a plot of ground which comprised the Mint and Vanderbilt lodes, donated to the school by General Charles S. Warren, and Messrs. George H. Casey, Levi J. Hamilton, R. H. Wearing, Joseph R. Silver, Robert A. Day, and Henry Haupt.

The legislature at this session in 1899, contemplated the opening of the school at some time in the year 1900, and made an appropriation of $26,300 for the equipment of the building and for maintenance to the end of the fiscal year, November, 1900.

The School of Mines was opened for the reception of pupils September 11, 1900. The total number admitted during that year was 39, classified as follows: Freshmen, 17; Sophomores, 3; Juniors, 1; and 18 students enrolled in special and preparatory courses.

President Koch

This **Magma** for 1960 serves as a mirror, from the pages of which are reflected the images of cherished friends and associates, events we remember fondly, and memories of many activities which have contributed to a very successful and pleasant year at MSM. These images will enrich our reveries of future years, helping us to remember if memory lags.

The past year has been marked with many noteworthy accomplishments. We have watched our student union building become a physical reality after nearly two years of planning and work. The Student Council has worked hand in hand with the administration on this project from the beginning, through preliminary and final plans, choice of furnishings, color schemes, plans for utilization, and organization for management and operation. Faculty-student co-operation and understanding have improved through mutual effort, resulting in increased participation of students in campus government. The Student Council has demonstrated outstanding leadership in effecting this and other student-faculty liaison. The various student organizations, dramatics, publications, athletics, all have made impressive and noteworthy contributions to an outstandingly successful year.

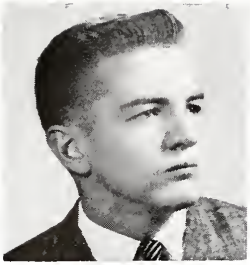
For our seniors we wish the best of good fortune and success in the years ahead. What you did here to prepare for the future will be your badge of distinction. Wherever you go, whatever you do, Montana School of Mines goes with you, wishing you well and depending upon you to uphold and support your Alma Mater.

Dean McAuliffe

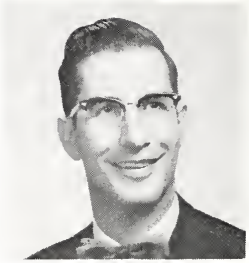
The pages which follow are essentially a record of memory; they are a partial history of the events of the year and of the men and women who influenced these events. From time to time when I turn over these pages, I expect, as you do, to recall with interest every person mentioned; to wonder how they are succeeding, and to wish each one a successful future. As you grow older and lonelier, and old faces slip away from you; as triumphs are gained and reversals are encountered, turning these pages will bring joy of recollection. You will find these pages interesting and they will grow priceless with the passing years.

The seniors have fulfilled a strenuous assignment and are charting a new course toward success. They will join with former graduates of Montana School of Mines who are performing in a commendable manner in many corners of the globe.

We are proud and pleased to have the Class of 1960 represent Montana School of Mines. I wish you success and much happiness along the way.



Lew Fischer
Editor



John Ruffatto
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John Bennett
Associate Editor

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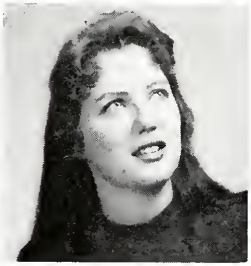

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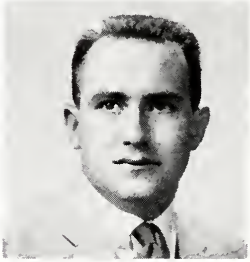
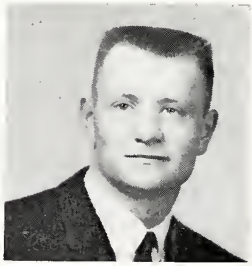
Art Editor



Jim Vercella
Assistant Business Mgr.



Harlan Higinbotham
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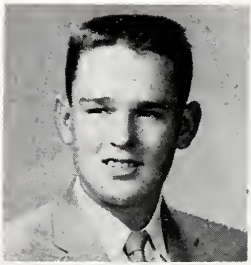
STAFF

Bob Laughlin
Associate Sports Editor

Bob Applegate
Photographer



Bill Tiddy
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Yvonne Ferris
Campus Editor

Mrs. McBride
Faculty Advisor

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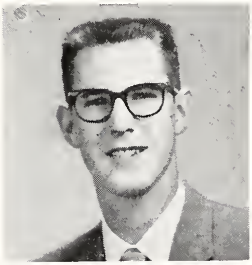
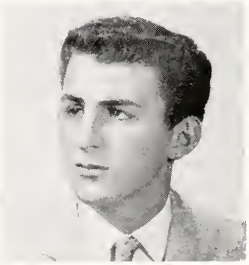
Pauline Utter
Faculty Editor



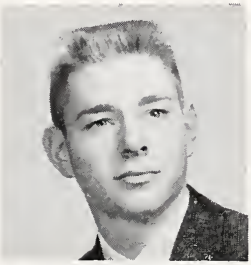
Henry Thompson
Activities Editor



John Cromrich
Class Editor

STAFF

John Chor
Associate Activities Editor



Edward Shumaker
Photographer

Manuel Munoz
Associate Activities Editor

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Professor and Head
Department of Chemistry

Harry J. Christoffers
Assistant Professor
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Fred N. Earll (Dr.)
Associate Professor and
Head, Department of Geology

George D. MacDonald
Assistant Professor
of Chemistry

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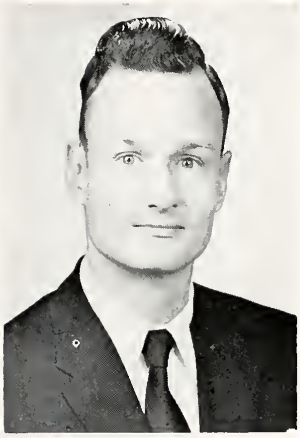
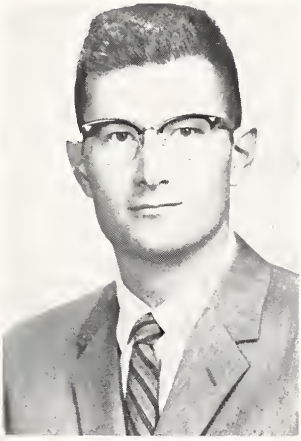
W. Clifford Laity
Professor of History; Head, Department of Humanities and Social Studies



Willard E. Cox
Assistant Professor of Geology



William B. Hall
Assistant Professor of Geology

James H. Albertson
Associate Professor of English

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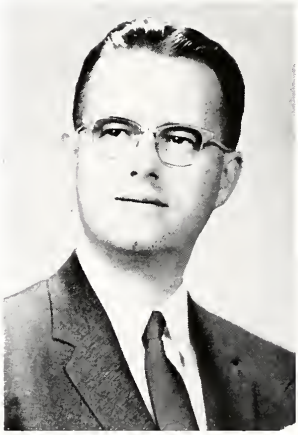
William W. Chance
Professor of English



Frank H. Kelly
Assistant Professor of Economics

Dale E. Pinckney
Assistant Professor of Social Studies

Louise L. McBride (Mrs. T. F.)
Associate Professor of Modern Languages; Advisor to Women Students

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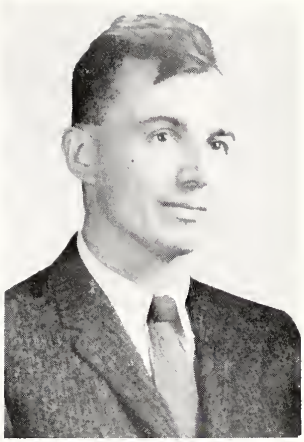

Vernon Griffiths (Dr.)
Associate Professor and Head,
Department of Metallurgy

Elizabeth S. Satter
Assistant Professor of
Mathematics

William A. Catenaro
Assistant Professor of
Mathematics

Ralph I. Smith
Associate Professor of
Metallurgy

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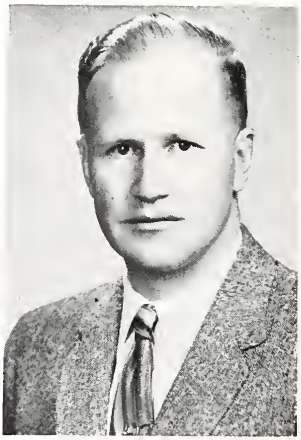
Donald W. McGlashan
Research Professor and Head,
Department of Mineral Dressing

William A. Vine
Professor and Head,
Department of Mining



Koehler S. Stout
Associate Professor of
Mining Engineering

Theodore S. Jordan
Instructor in Mineral Dressing

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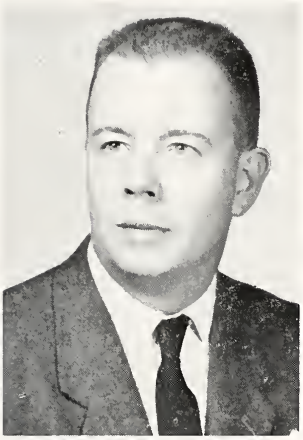
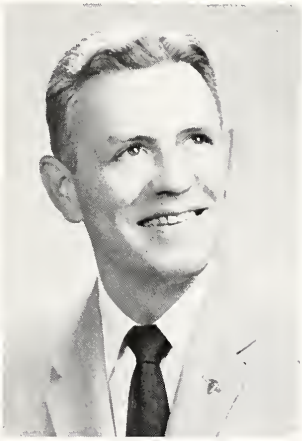
Stephen W. Nile (Dr.)
Professor and Head,
Department of Physics



Douglas H. Harnish, Jr.
Associate Professor and Head,
Department of Petroleum
Engineering



Gustav Stolz, Jr.
Assistant Professor of Petroleum
Engineering

John G. McCaslin
Assistant Professor of Physics

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Francis M. Young
Instructor in Mechanics and Electricity, and Physics

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Librarian; Associate Professor

W. Milton Brown
Registrar; Business Manager

Edward F. Simonich
Director of Athletics; Coach; Assistant Professor of Physical Education

Margaret Sarsfield (Mrs. G. P.)
Instructor in Physical Education for Women

GRADUATE STUDENTS

Donald Richard Corson

Bigfork, Montana; Mining Anderson-Carlisle, Copper Guards, President Senior Class, B.S. Geological Engineering, Montana School of Mines.

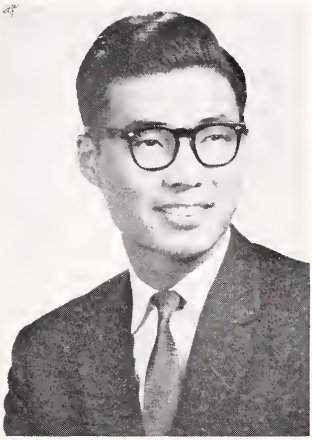
Johannes P. Dreyer

Kamieskroon, C. P., Union of South Africa; Mineral Dressing Newmont Mining Corp. Scholarship, B.S. Chemistry and Geology, B.S. Metallurgical Engineering, (Mineral Dressing Option), University of Stellenbosch, C. P. South Africa.

Kenneth F. Fox

Hardin, Montana, Geology, B.S. Geology, University of Idaho.

GRADUATE STUDENTS

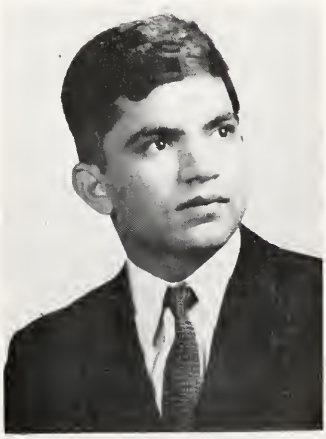


Ki Hyun Kim

Andong Korea; Mining Engineering, B.S. Engineering, Seoul National University.

Lilburn H. Lueck

Ennis, Montana; Petroleum Engineering, B.S. Petroleum Engineering, Montana School of Mines.



Syed Hamid Raza

Quetta, Pakistan; Petroleum Engineering, B.S. Mining (Honors), B.S. Petroleum Engineering, Engineering College, Pakistan, Montana School of Mines.

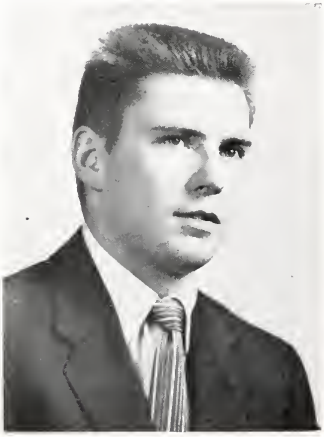
GRADUATE STUDENTS

Albert R. Rule

Butte, Montana; Mineral Dressing, Graduate Research Fellowship, B.S. Metallurgy (Mineral Dressing Option), Montana School of Mines.

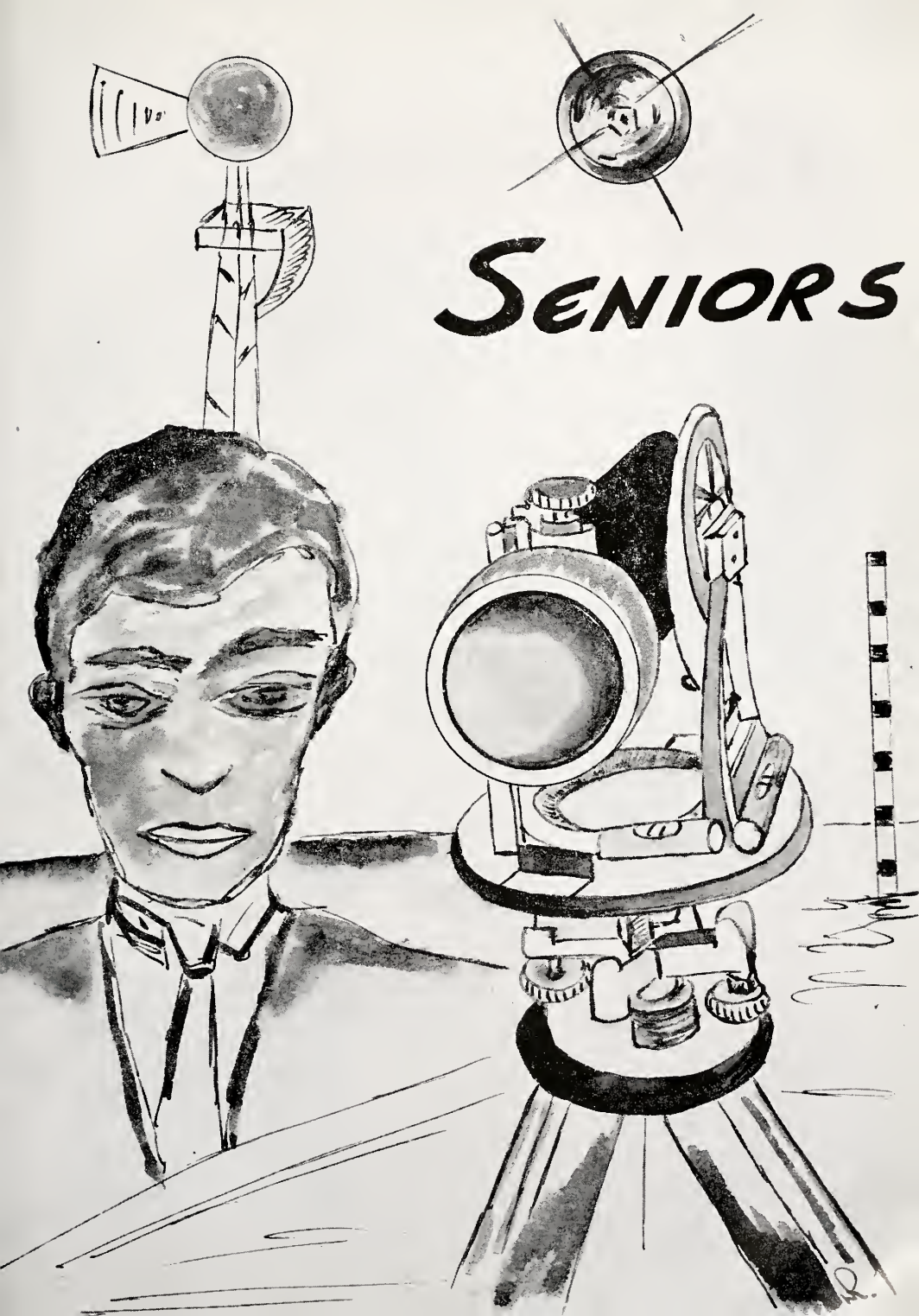
Carlos M. Trevejo

Lima, Peru; Mining Engineering, B.S. Chemical Engineering, Universidad Nacional de San Marcos.



Jerome A. Yopps

Waukesha, Wisconsin; Metallurgical Engineering, B.S. Metallurgical Engineering, Montana School of Mines.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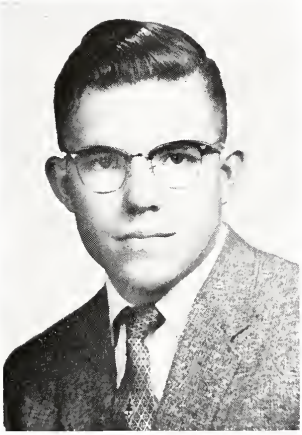
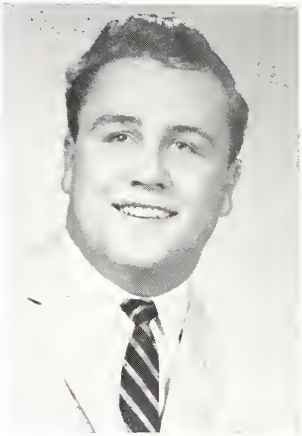


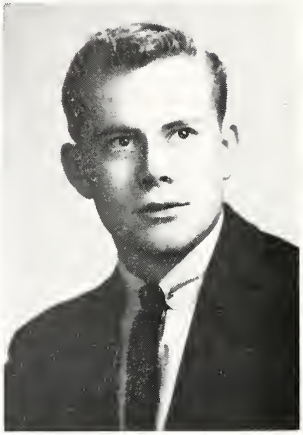
George Arthur Grandy

Vice-President; Butte, Montana; Metallurgy; ASAFCO, Advanced Honor Scholarship, Theta Tau, AIME, Copper Guard, Scribe, Vice-President Student Council.



Kelly P. Hemmert

President, Butte, Montana; Petroleum Engineering, Sigma Rho, Anderson-Carlisle, M-Club, Football, Track.



Marvin L. Smith

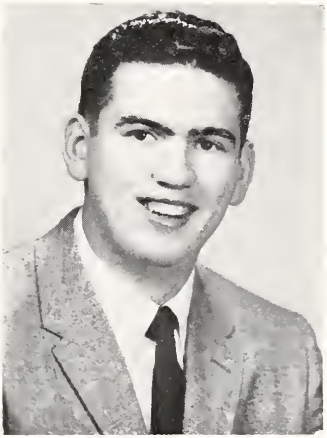
Great Falls, Montana; Petroleum Engineering; MSM Advanced Scholarship, California Co. Scholarship, Theta Tau, Anderson-Carlisle, Vice-President Petroleum Section AIME, Secretary of Senior Class.

Seniors

SENIORS

Arthur C. Bigley, Jr.

Anaconda, Montana; Metallurgical Engineering; Theta Tau, B.S. in Engineering, U. S. Naval Academy, ASM.



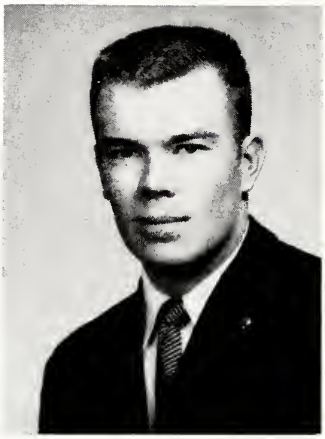
William Ralph Byrne

Butte, Montana; Metallurgical Engineering; American Society for Metals Scholarship, Theta Tau, Anderson-Carlisle, The Institute of Metals, American Society for Metals.

William G. Callaway, Jr.

Great Falls, Montana; Petroleum Engineering.

SENIORS

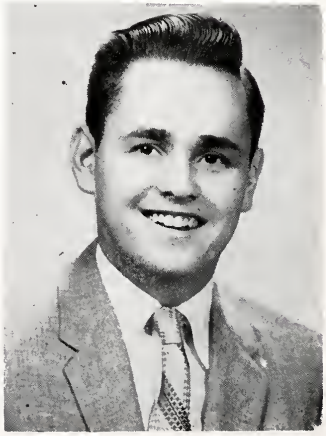


James F. Donovan

Anaconda, Montana;
Metallurgical Engineering; Sigma
Rho, Copper Guards,
Vice-President Metallurgy Section
Anderson-Carlisle, Baseball.

Walter I. Enderlin

San Francisco, California;
Petroleum Engineering; Theta Tau,
Secretary-Treasurer
Anderson-Carlisle, Magma Staff,
Dramatics, Golf.



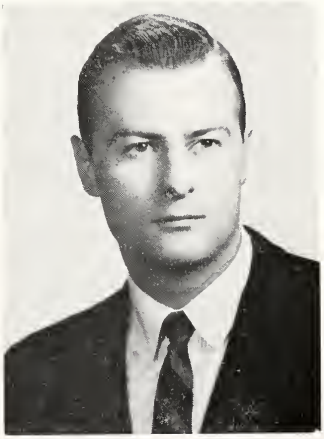
Kenneth H. Erickson

Grand Rapids, Minnesota;
Mining; American Smelting and
Refining Company Scholarship,
Theta Tau, Anderson-Carlisle,
M-Club, Mineral Club, Vice-President
Junior Class, Baseball.

SENIORS

Harvey J. Hannah

Shelby, Montana; Geological Engineering; Regent of Theta Tau, Anderson-Carlisle.



Robert W. Hoy

Butte, Montana; Petroleum Engineering; Who's Who, Sigma Rho, Anderson-Carlisle, Delegate to Student Council, Varsity Baseball.

Taj Mohammad Khan

Quetta, West Pakistan; Mining Engineering.

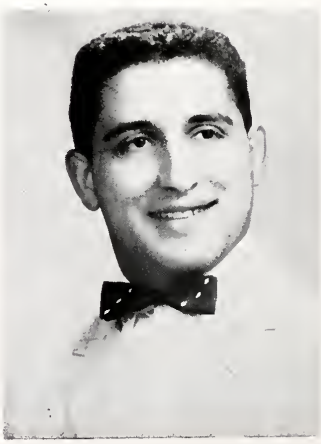
SENIORS

Alec E. Lindquist

Whitehall, Montana;
Geological Engineering
(Mining Option).

Robert G. Mock

Butte, Montana;
Petroleum Engineering;
Theta Tau.



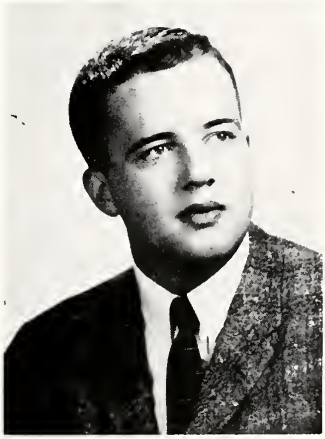
Robert Tamer Rask

Butte, Montana; Petroleum
Engineering; Theta Tau,
Anderson-Carlisle.

SENIORS

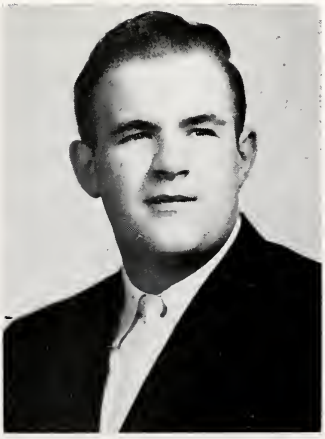
Gary W. Riley

Roundup, Montana; Petroleum Engineering; Sigma Rho, Anderson-Carlisle, Letterman's Club, Football, Baseball.



Donald Keith Roberts

Whitehall, Montana; Geological Engineering (Petroleum Option); AIME Loan Fund, MSM Advanced Scholarships, Theta Tau, Student Council, Debate, Hall Council, President of Junior Class.



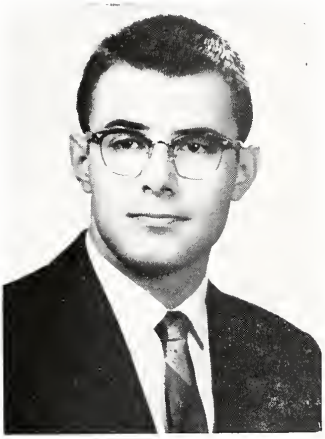
James Edward Thompson

Butte, Montana; Metallurgical Engineering; Theta Tau Scribe, Anderson-Carlisle.

SENIORS

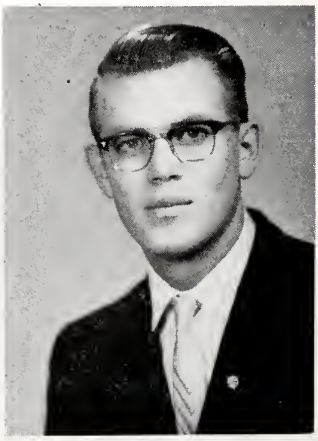
Robert R. Utter

Eureka, Montana; Mining Engineering; Gardner-Denver Scholarship, AIME Auxiliary Scholarship, Anderson-Carlisle, Ski Club, Mineral Club, Vice-President Sophomore Class, Vice-President Anderson-Carlisle.



Richard Roy Vincelette

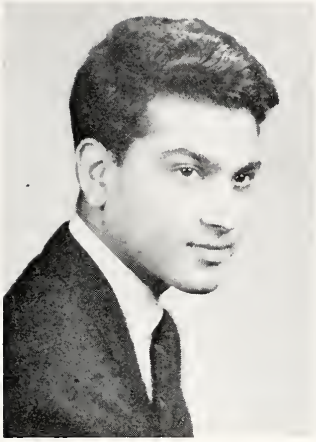
Billings, Montana; Geological Engineering (Petroleum Option); Gino Diamanti Scholarship, MSM Advanced Scholarships; Who's Who, ASTM Student Membership Prize Award; Duke of Copper Guards, Debate Captain, ASSM President and Delegate, Anderson-Carlisle, Theta Tau, Hall Council.



Douglas Harold Wadman

Cut Bank, Montana; Petroleum Engineering; Billings Section AIME Scholarship, MSM Advanced Scholarships, Carter Oil Company Scholarship, Theta Tau, Hall Council, President Anderson-Carlisle, Copper Guards, Who's Who.

SENIORS

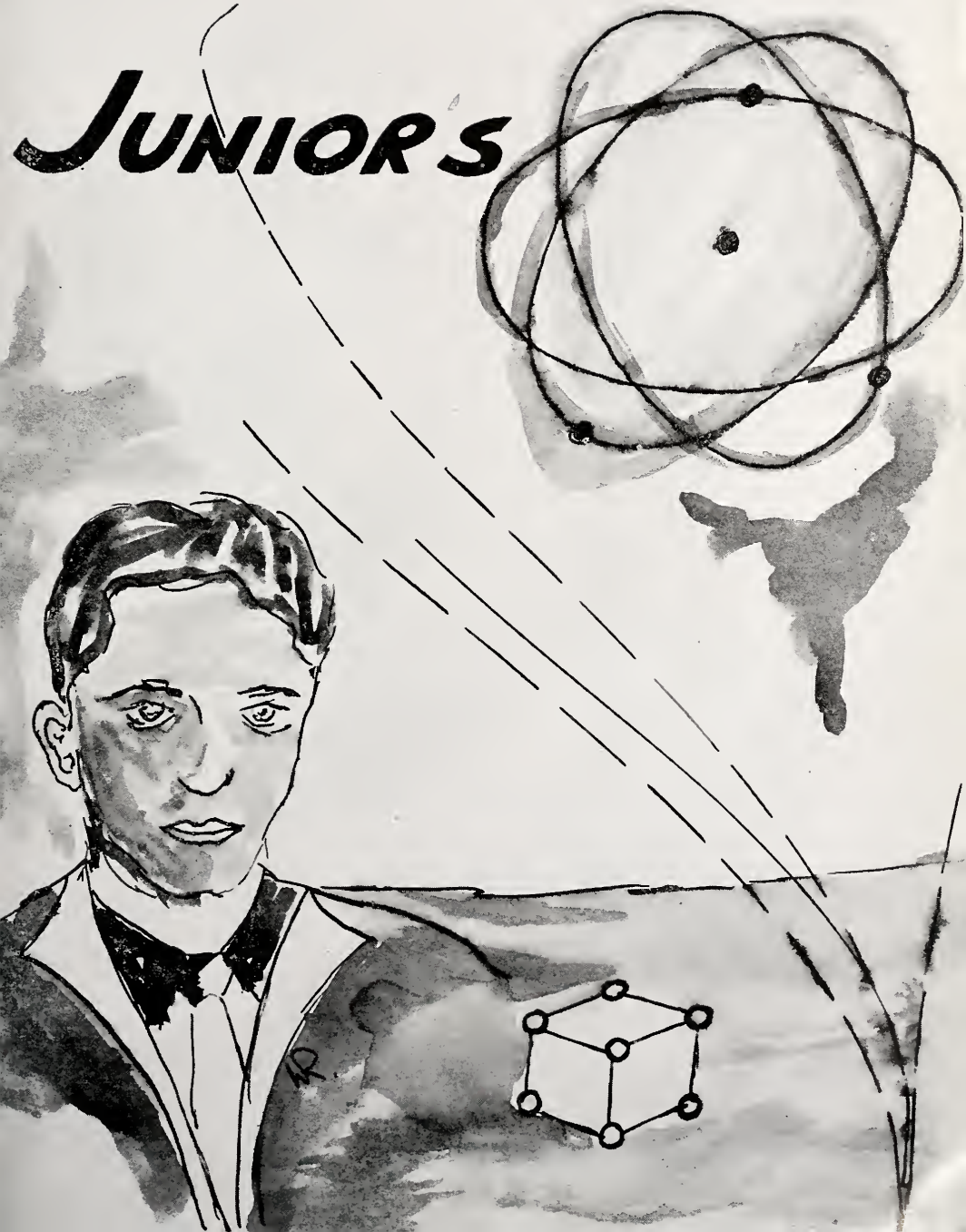


Javaid M. Alvi

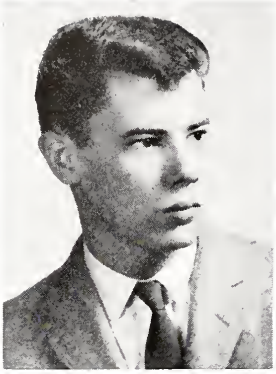
Gujraniwala, Pakistan;
Petroleum Engineering and
Geological Engineering (Petroleum
Option); President of
International Club.

Graduating Class of 1959

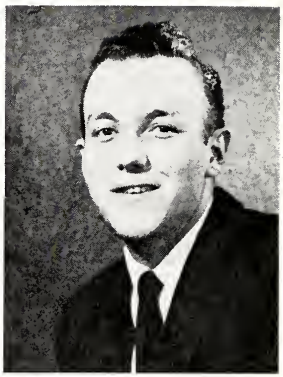
JUNIORS



CLASS OFFICERS



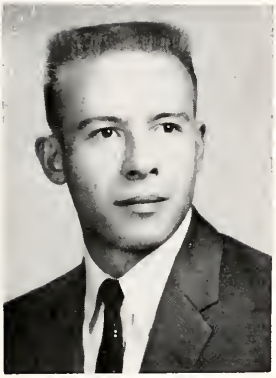
Robert B. Donaldson
President
Newington, Connecticut



John F. Gardner
Vice-President
Butte, Montana

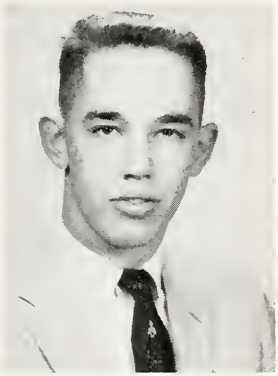
Juniors

JUNIORS



Perry W. Bilyeu
Wolf Point, Montana

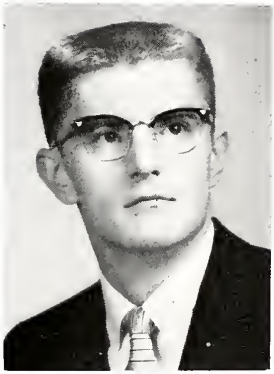
Arthur L. Boettcher
Great Falls, Montana



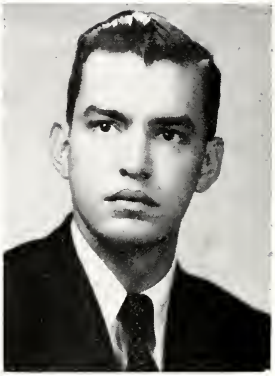
Donald W. Bork
La Grande, Oregon

Dave P. Cadwell
Lima, Peru

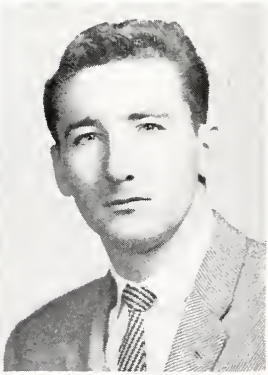
JUNIORS



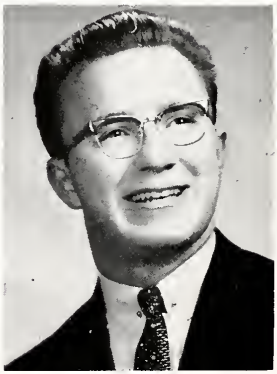
Alexander L. Chaky
New Westminster, B. C.



Manuel E. Galup
Lima, Peru

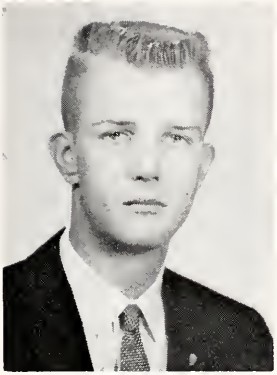


Peter J. Gross
Grassy Lake, Alberta

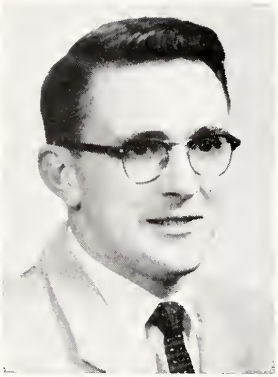


Leonard R. Judd
Butte, Montana

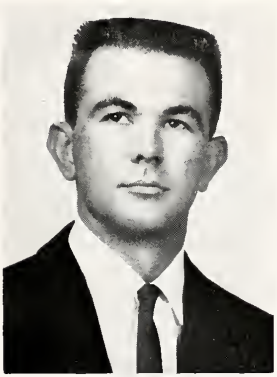
JUNIORS



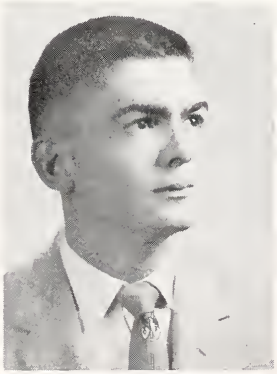
Gay D. Kravik
Havre, Montana



Donald E. Mahagin
Butte, Montana

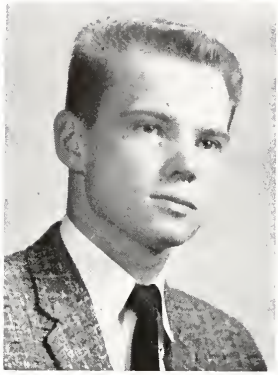


Donald J. McMillan
Butte, Montana



Namon J. Nichols
Whitehall, Montana

JUNIORS



Rodney W. Prellwitz
Minneota, Minnesota

David G. Rasmussen
Missoula, Montana

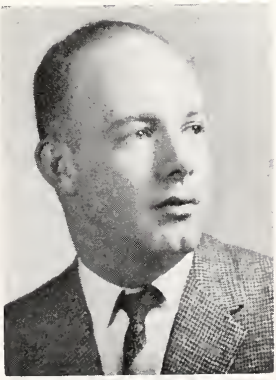
Allen D. Rovig
Kalispell, Montana

Edwin L. Speelman
Kalispell, Montana

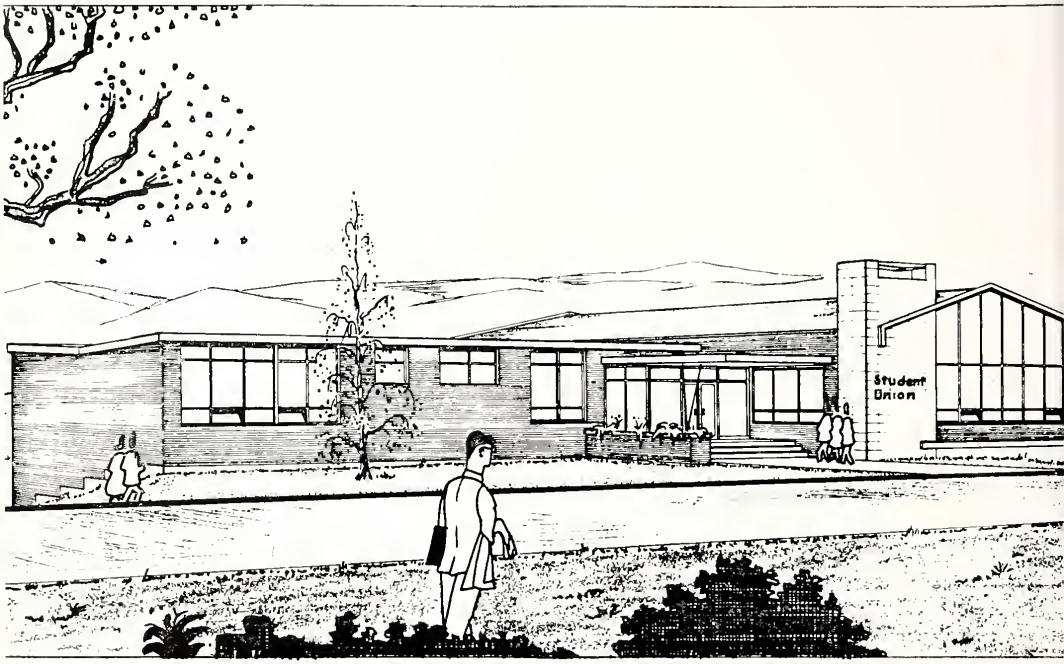
JUNIORS

Robert E. Warren
Fort Benton, Montana

William H. Thompson, Jr.
Everett, Washington



John C. Williams
Superb, Saskatchewan



Student Union Building

On May 12, 1959, the Montana State Board of Education gave the Montana School of Mines its approval on the construction of a Student Union Building. Funds were to be provided by a government Housing and Home Finance Agency loan to cover the estimated $250,000 cost. In addition, the Associated Students of MSM agreed, by a majority vote, to a building fee of $5.00 per student.

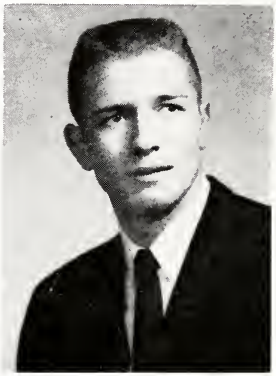
Plans were drawn by Walter Moyle, Moyle Architects, and the contract was awarded to Taylor-McDonnell Construction Company.

Construction on the building was begun on July 15, 1959. The structure was completed in April, 1960.

SOPHOMORES

CLASS OFFICERS

William C. Pickard
Vice-President



Peter H. Atkinson
President

Robert E. Johnson
Secretary-Treasurer

Sophomores

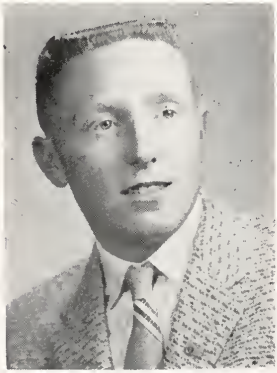
Force F. Baney
Great Falls, Montana

John W. Bennett
North Fork, Idaho

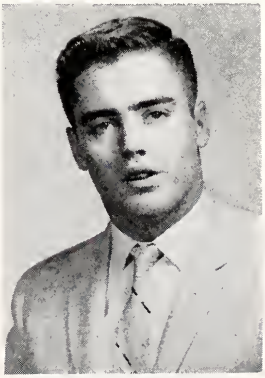
Bradley D. Bilyeu
Wolf Point, Montana

SOPHOMORES

Jerome J. Blake
Greeley, Colorado

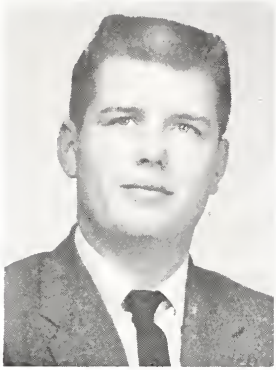


George M. Bronson
Butte, Montana

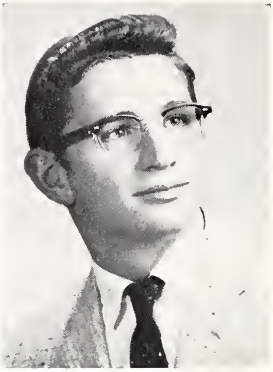


Cam C. Brown
Vida, Montana

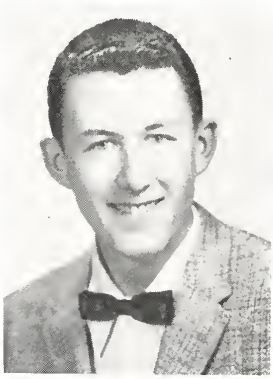
SOPHOMORES



Sydney W. Brown
North Bay, Ontario



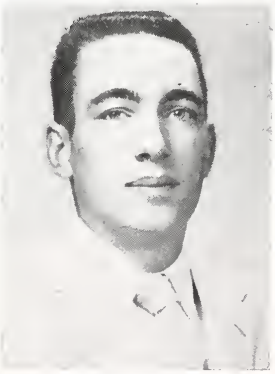
John J. Chor
Anaconda, Montana



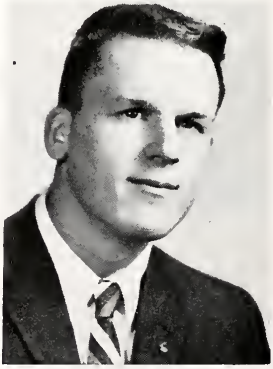
Charles O. Conlan
Butte, Montana

John E. Dowis
Las Vegas, Nevada

Darrel D. Day
Cut Bank, Montana



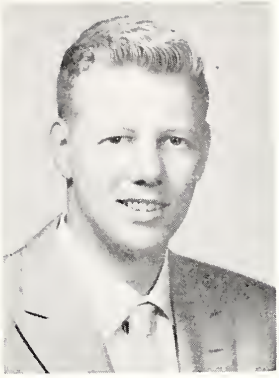
John H. Dwyer
Butte, Montana



Kenneth A. Fitzpatrick
Butte, Montana

SOPHOMORES

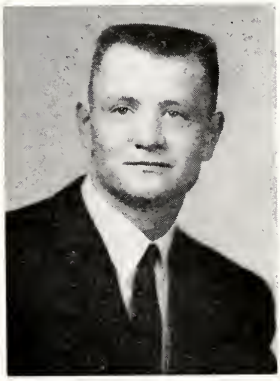
David H. Greenberg
Flin Flon, Manitoba



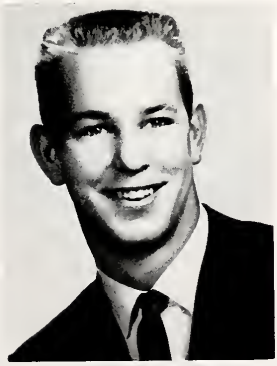
Thomas J. Henderson
Butte, Montana

Robert L. Hicks
La Grande, Oregon

Judith D. Delmoe
Butte, Montana



Harlan E. Higinbotham
Butte, Montana



Thomas M. Hines
Vallejo, California

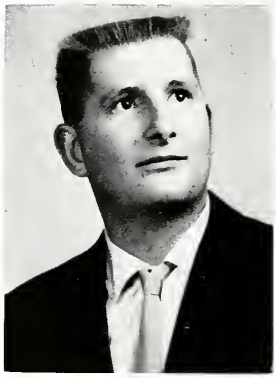
Terrence R. James
Magrath, Alberta

Larry C. Katcher
Flin Flon, Manitoba

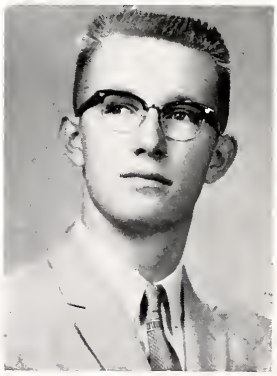
Michael R. Keegan
Spokane, Washington

Austin S. Keddie
Flin Flon, Manitoba

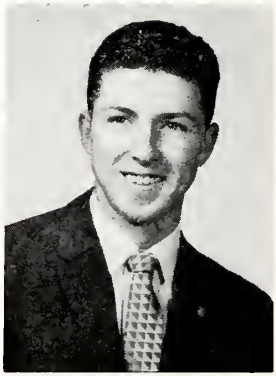
SOPHOMORES



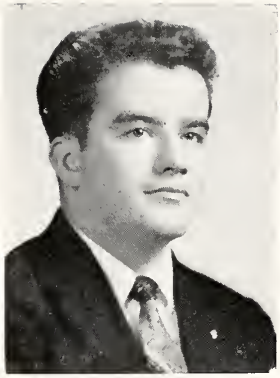
Edward A. Kenison
Dillon, Montana



William R. Lane
Three Forks, Montana

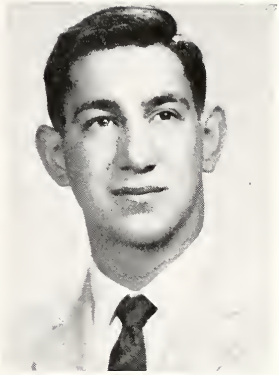


Leroy R. Latimer
Butte, Montana



Thomas J. LaVelle
Butte, Montana

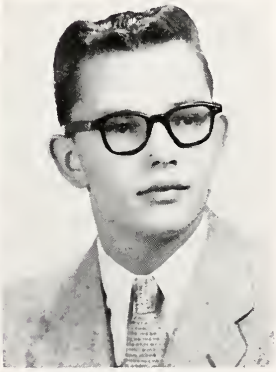
Robert C. Laughlin
Anaconda, Montana



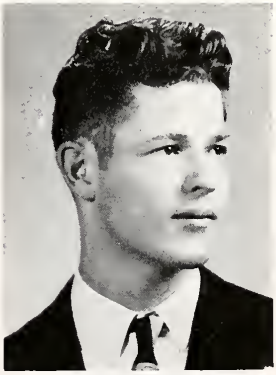
Francis Lucon
Butte, Montana

SOPHOMORES

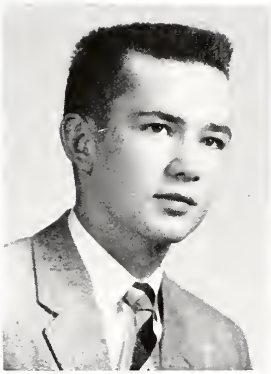
Sandra L. Maddock
Butte, Montana



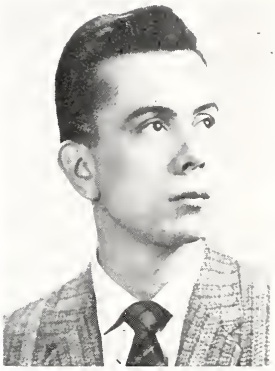
Robert S. Martens
Anaconda, Montana



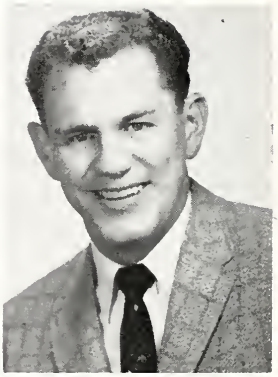
Stanley R. Mulherin
San Lorenzo, California



Robert D. Newman
Elliston, Montana



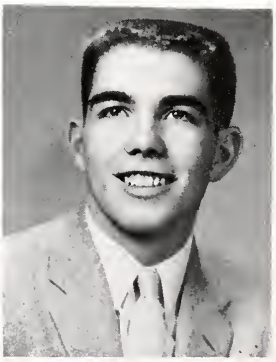
Manuel J. Munoz
Antofagasta, Chile



Thomas R. Odland
Butte, Montana

SOPHOMORES

James O'Brien
Butte, Montana

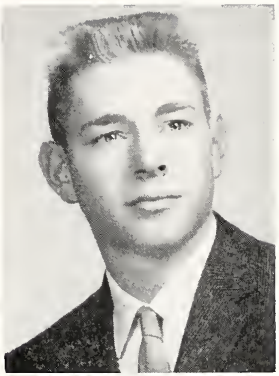


Frank E. Panisko
Butte, Montana

David R. Rife
Miles City, Montana

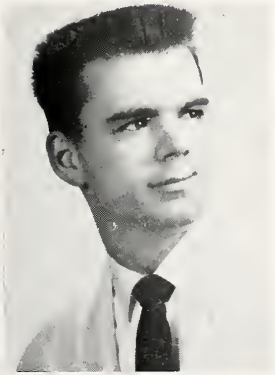
David W. Robertson
Flin Flon, Manitoba

Jeannette Sigurdson
Butte, Montana

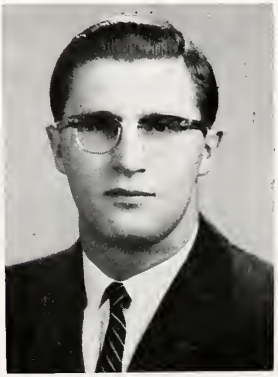


Edward Shumaker
Arlington Heights, Illinois

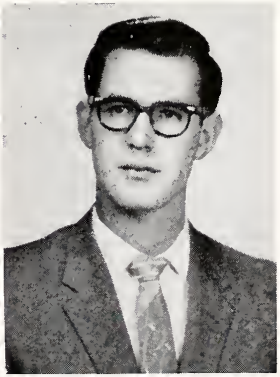
SOPHOMORES



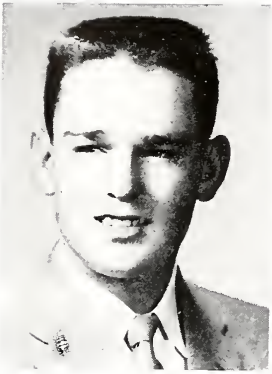
Ernest A. Stroup
Butte, Montana



Garry A. Swanson
Taber, Alaska

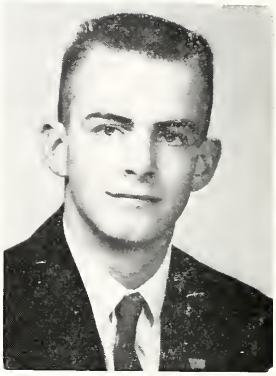


Henry E. Thompson
Tioga, North Dakota



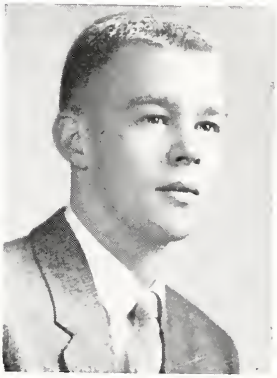
William C. Tiddy
Butte, Montana

James R. Vercella
Butte, Montana



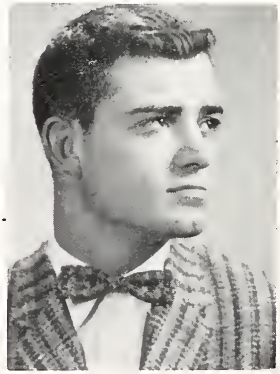
George L. Vivian
Butte, Montana

SOPHOMORES

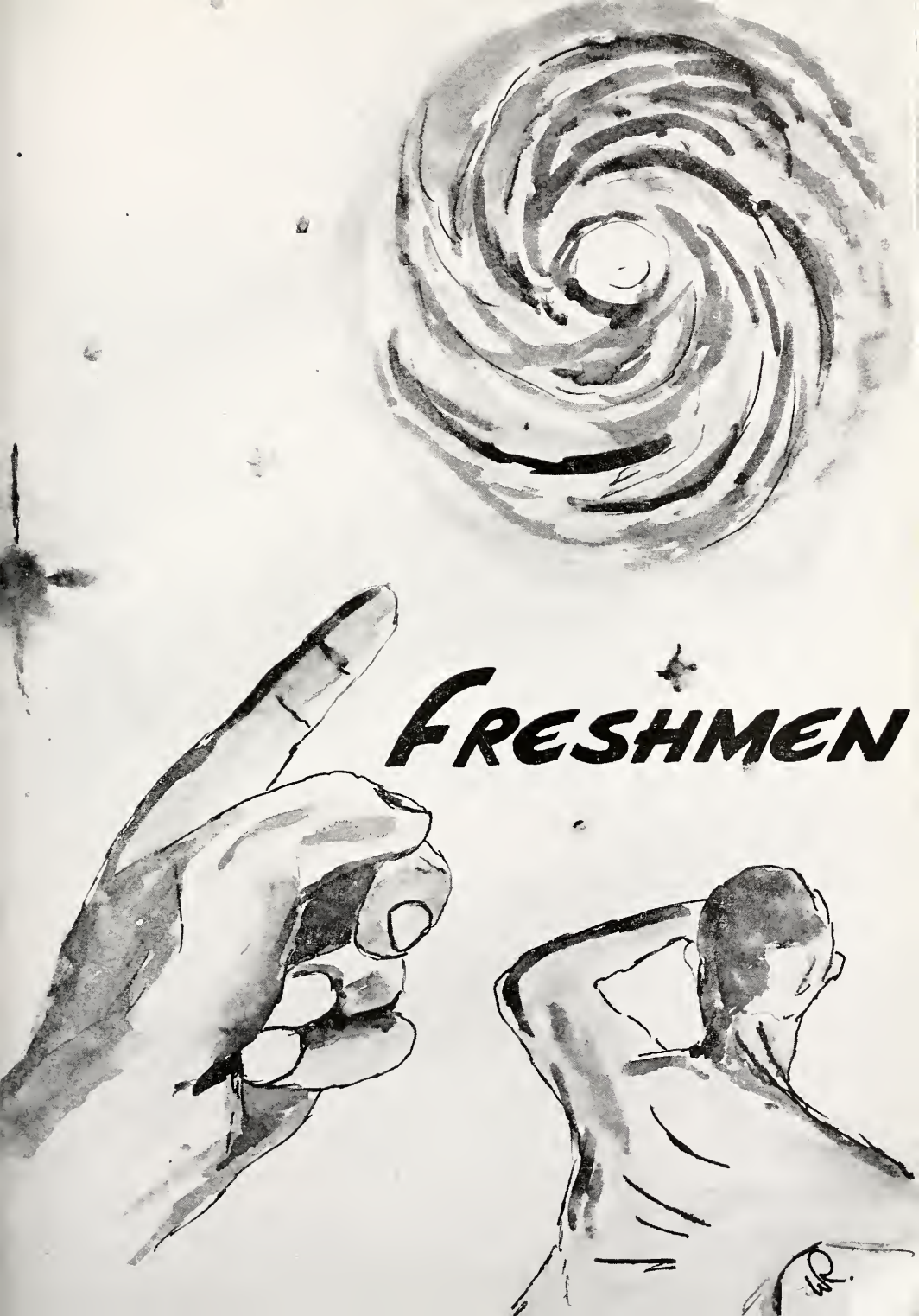


William C. Waters
Regina, Saskatchewan

Allen S. Winters
Port-Au-Prince, Haiti



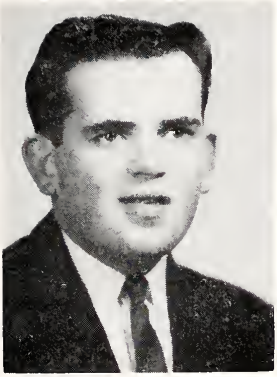
Jack L. Weaver
Trident, Montana


FRESHMEN

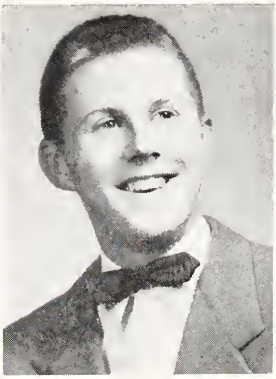
CLASS OFFICERS

Left to right: President, Dennis Coyne; Secretary-Treasurer, James Ugrin; Vice-President, Stanley Bosch.

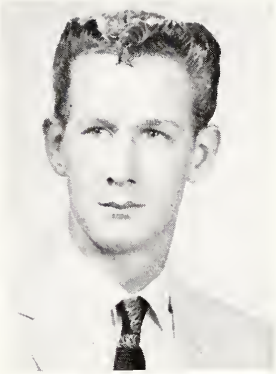
-:- *Freshmen* -:-



Richard W. Adams
Hobson, Montana

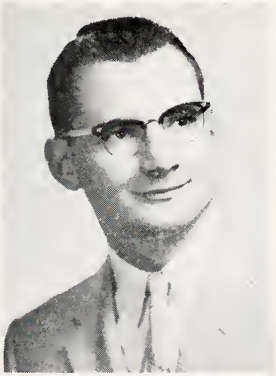


John A. Alley
Butte, Montana

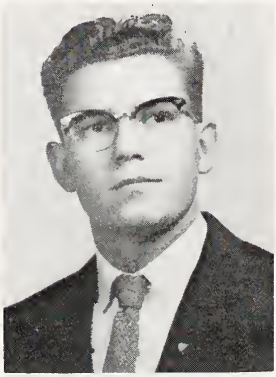


Gordon T. Austin
Thornton, Washington

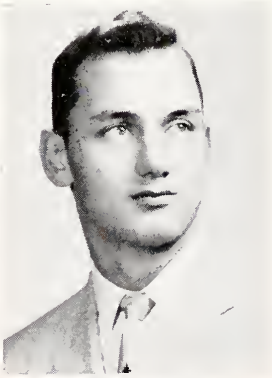
FRESHMEN



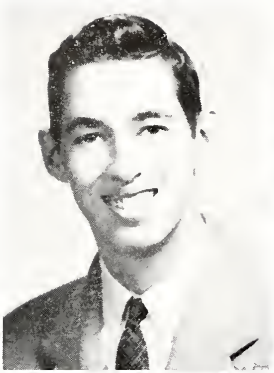
William H. Bayliff
Butte, Montana



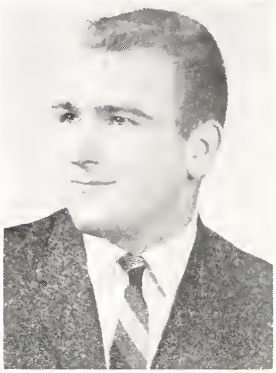
Elvin H. Beardslee
Anaconda, Montana



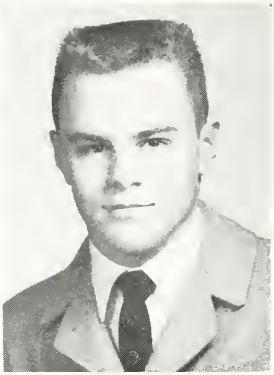
George Berthelson
Missoula, Montana



Bruce Blomstedt
Rumford, R. I.



Stanley G. Bosch
Anaconda, Montana



John V. Burk
Glen, Montana

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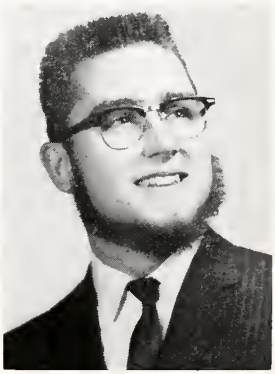
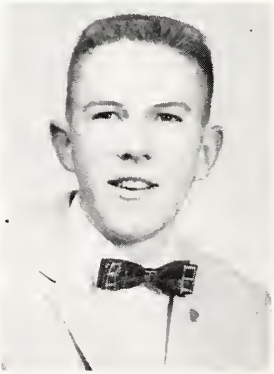
Billie Jane Castellano
Butte, Montana

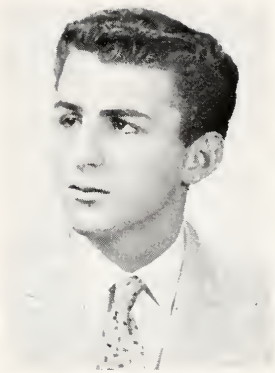


William A. Coghlan
Manhattan, Montana

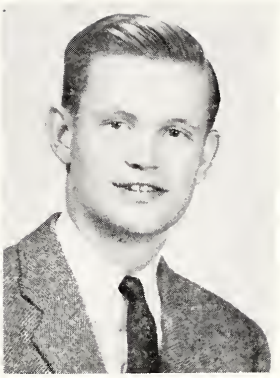


James T. Conway
Butte, Montana

Raleigh Curtis
Butte, Montana



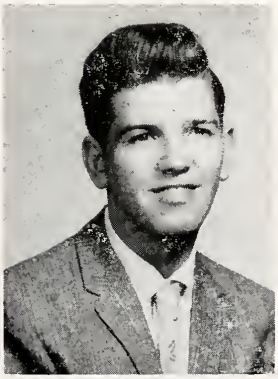
John J. Cromrich
Butte, Montana



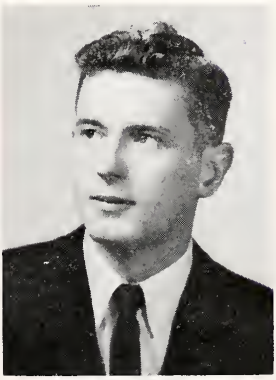
John J. Delaney
Farmingdale, N. Y.

FRESHMEN

Remember me.
Regards
Yvonne

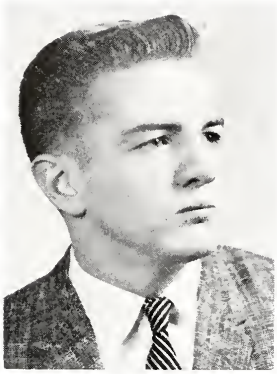


Robert J. Dickenson
Butte, Montana

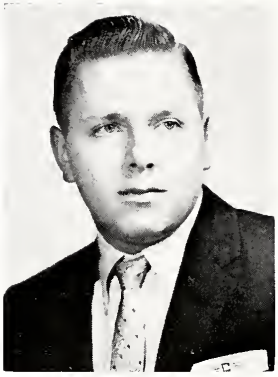


Robert E. Drain
Butte, Montana

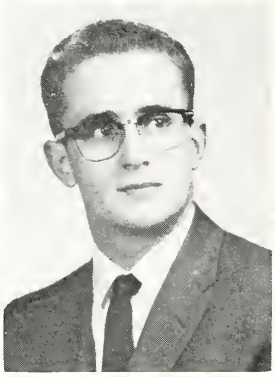
Yvonne C. Ferris
Butte, Montana



Llewellyn M. Fischer
Butte, Montana

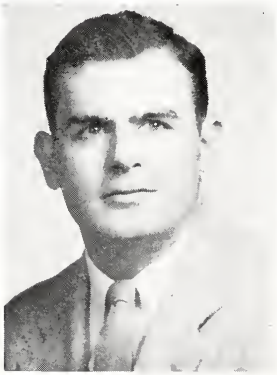


Clarence L. Forsman
Anaconda, Montana

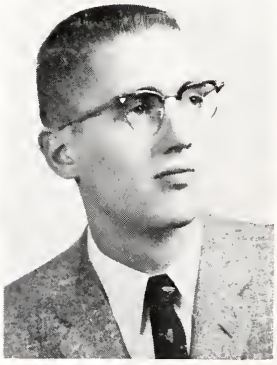


Howard T. Forsythe
Livingston, Montana

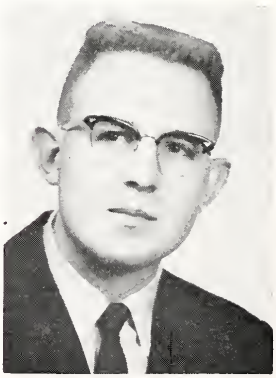
FRESHMEN



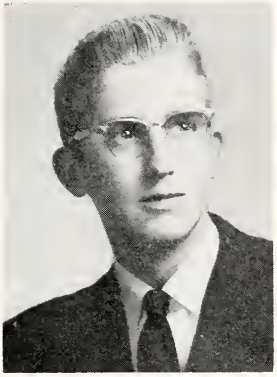
Christopher B. Gillette
Rocky River, Ohio



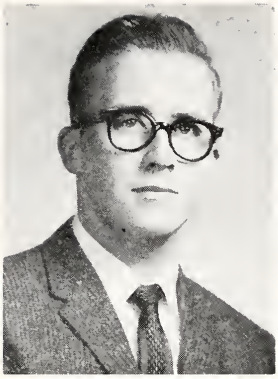
Alan J. Gray
Butte, Montana



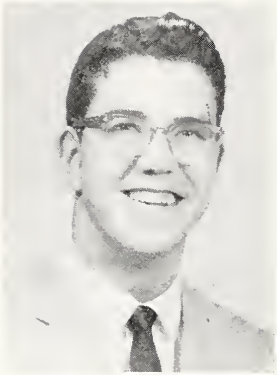
Kenneth W. Hill
Grand Junction, Colorado



Duane L. Johnson
Portland, Oregon

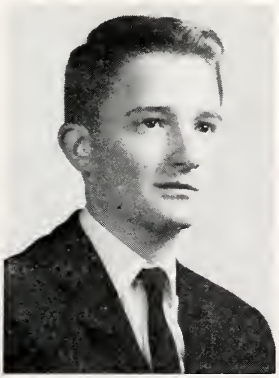


Ronald H. Kendall
Anaconda, Montana

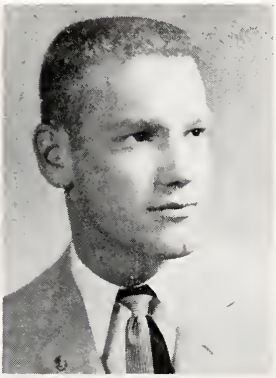


Robert F. Keyes
Butte, Montana

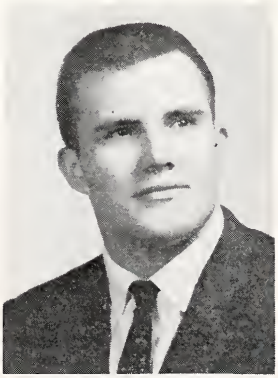
FRESHMEN



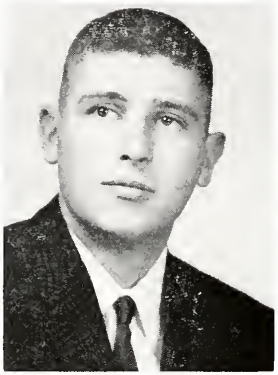
Richard D. Kirkeby
Anaconda, Montana



James M. Knuckles
Haugan, Montana



Raymond Kotow
Crossfield, Alberta



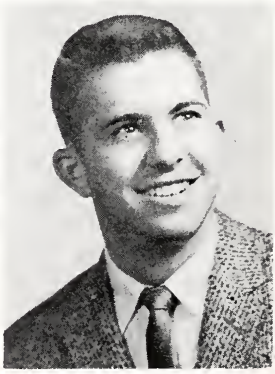
Thomas F. Liebsch
Helena Montana

William D. Lueck
Anaconda, Montana

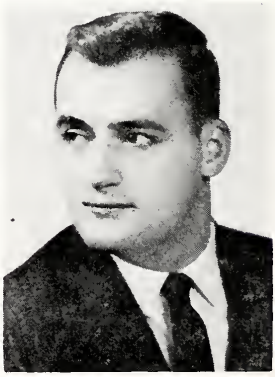
Sandra L. Mannix
Butte, Montana

FRESHMEN

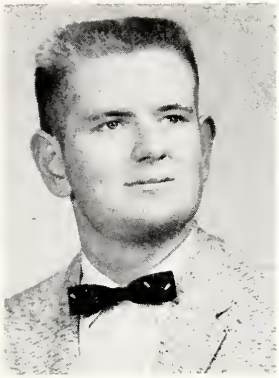
Teimoor Mantashi
Abadan, Iran



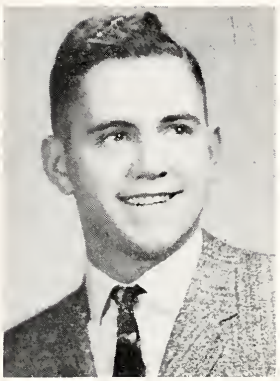
George R. Marsh
Anaconda, Montana



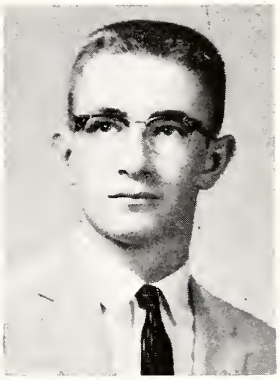
James A. Mazza
Chicopee, Massachusetts



James H. Mee
Ramsay, Montana

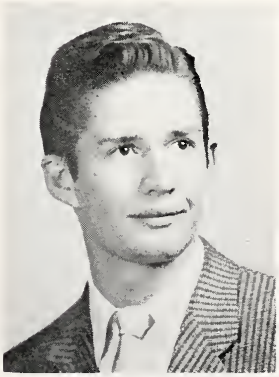


Patrick D. McElliott
Conrad, Montana

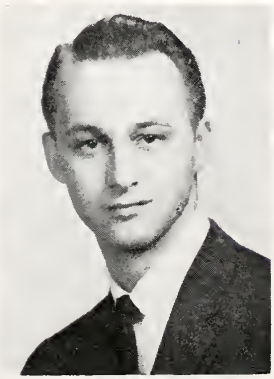


Russell E. Meech
Choteau, Montana

FRESHMEN

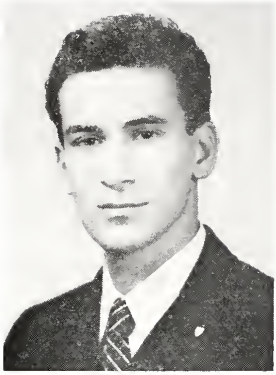


Gaston G. Pasut
Chuquicamata, Chile

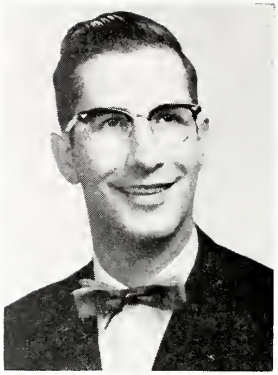


Dennis G. Peterson
Hayward, California

Janet Richardson
Butte, Montana



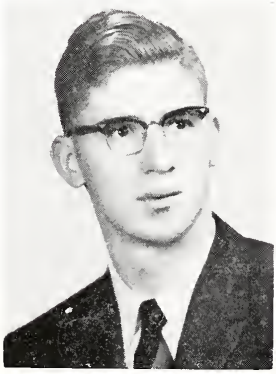
Nicholas V. Rozzo
Newark, N. J.



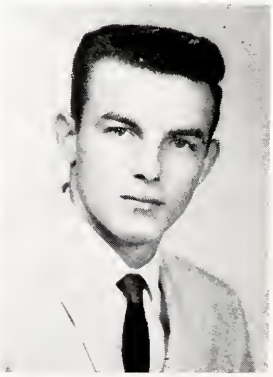
John B. Ruffatto
Butte, Montana

Edward A. Semsak
Butte, Montana

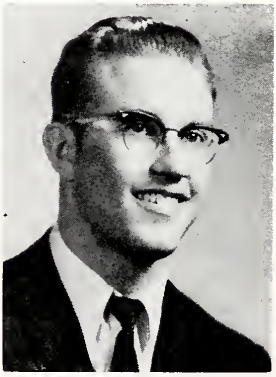
FRESHMEN



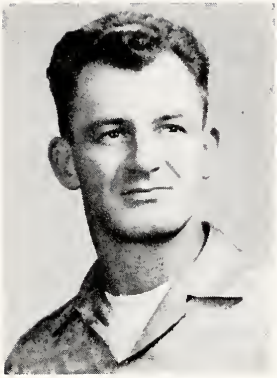
Angus A. Smart
Butte, Montana



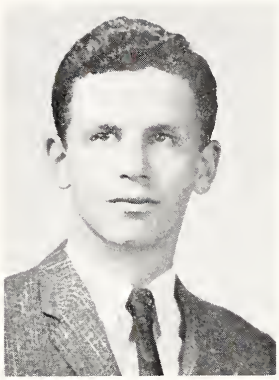
Ronald J. Smith
Anaconda, Montana



Dean O. Staton
Anaconda, Montana



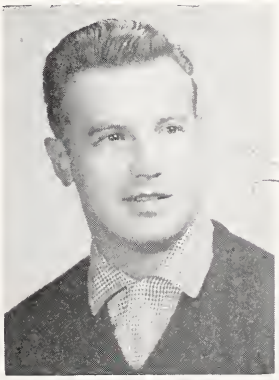
John L. Sullivan
Butte, Montana



Kurt Toegel
Ancora, N. J.

FRESHMEN

Pauline H. Utter
Eureka, Montana



Henry W. Watkins
New Westminster, B. C.

Montana
School of Mines
ACTIVITIES

STUDENT COUNCIL

Left to right: A. Rovig, R. Vincelette, G. Grandy, D. Mahagin, R. Hoy, G. Kravik.

The Student Council, composed of the officers and executive committee of the Associated Students of Montana School of Mines, functions as a co-ordinating organization between faculty and students. It has the responsibility of general supervision over extra-curricular campus traditions and the promotion of student affairs.

Projects which this year's council helped complete were the M-Day activities, and it also played an instrumental part in naming the Student Union Building.

WHO'S WHO

The six students pictured were the Montana School of Mines electees to "Who's Who Among Students in American Colleges and Universities." Candidates for this honor are selected from seniors who are eligible for graduation in June. The method of selection is that the heads of the degree-granting departments, the registrar, and the student body president are asked to submit to the Dean names of seniors who they believe are qualified for nomination. Those receiving the highest number of votes are nominated.

In order to be considered for this honor a student must show evidence of the following qualities: Excellence and sincerity of scholarship, leadership and participation in extracurricular and academic activities, citizenship and service to the school, and promise of future usefulness to business and society.

Left to right: R. Hoy, R. Utter, Mr. McAuliffe, Mrs. J. Powell (Sec. to the Dean), R. Vincelette, K. Hemmert, G. Grandy, D. Wadman.

AMPLIFIER STAFF

First row, left to right: J. Bennett, Y. Ferris, J. Thomas, P. Utter, E. Shumaker, M. Becker, A. Herring.
Second row: H. Higinbotham, J. Cromrich, B. Tiddy, John Downey, J. Vercella, M. Munoz, B. Laughlin, J. Chor. Absent: J. Ruilato and L. Fischer.

The **Amplifier** is the bi-monthly student newspaper produced by students enrolled in English for Publications. It serves as a medium of expression and general information for the students and faculty.

Constructive criticism and technical guidance is rendered by Professors Albertson, McBride, Satter and Cox. Credit for production is due, in large part, to their tireless efforts and helpful assistance to the students of the staff.

In addition to their duties on the **Amplifier,** a majority of the staff actively participates in the compilation of the **Magma,** a job requiring no little verbal dexterity and intrinsic belief in the merits of personal satisfaction.

ANDERSON-CARLISLE SOCIETY

The Anderson-Carlisle Society, named for the two School of Mines students who lost their lives in the service during World War I, was organized in 1922, and qualified as a Student Chapter of the American Institute of Mining, Metallurgical, and Petroleum Engineers in 1934. One requirement for membership in the society is student membership in the A.I.M.E.

The society holds monthly meetings, which feature lectures by experienced technical men in the mining, metallurgical, and petroleum fields. For the past three years, the society has sponsored an annual Engineering Day Program, at which time openhouse is held on the campus, and the public is invited to examine the facilities afforded to Mines students.

First row, left to right: R. Flager, J. Chor, G. Grandy, D. Wadman, R. Utter, J. Donovan, D. Cadwell.
Second row: G. Kravik, L. Lueck, D. Day, R. Vincelette, K. Hemmert, R. Rask, B. Dundas.
Third row: R. Hoy, D. Roberts, A. Chaky, W. Pickard, A. Mondlak, R. Johnson, J. Thompson.
Fourth row: R. Mock, D. Mahagin, A. Herring, M. McKinnon, J. Bennett, A. Rovig, E. Speelman.

CIRCLE K CLUB

Front row, left to right: J. O'Brien, L. Judd, L. Latimer, J. Cromrich.
Front row: J. Vercella, J. Dwyer, J. Ruffatto, R. Drain.

OFFICERS

President .....LeRoy Latimer
Vice-President .....John Cromrich
Secretary .....James Vercella
Treasurer .....John Ruffatto
Directors .....Bob Drain,
Marvin Shanklin, Ray Goldsworthy

The Montana School of Mines Circle K Club was organized in October, 1958. Circle K, sponsored by Kiwanis International, is a service organization which serves at a college level. It is a character-building group which offers service to the school and to the community.

The Circle K Club is not a secret organization. It avoids cliques and its meetings are open to the public at all times. In addition to rendering unlimited service to its community, Circle K provides college men with the opportunities to develop leadership, good citizenship, education, and fellowship.

COED CLUB

The Coed Club is an organization composed of the women of the Montana School of Mines. This active organization besides participating in the school traditional activities such as M-Day, sponsors may of the social events including dances, swimming parties, coffee hours, and teas. This year as last year it sponsored a coffee-shop in a room provided in the Mill building. This spot has provided a relaxing haven for many of the Mines students.

OFFICERS

President ..... Gail Jones
Vice-President ..... Yvonne Ferris
Secretary-Treasurer ..... Sandi Maddock
Advisor ..... Mrs. L. L. McBride

Front row, left to right: Mrs. McBride, advisor; S. Maddock, G. Jones, Y. Ferris.
Back row: S. Mannix, J. Richardson, P. Utter, J. Sigurdson, B. Castellano, M. Becker.

COPPER GUARD

Front row, left to right: W. Thompson, P. Atkinson, C. Brown, W. Pickard.
Back row: G. Vivian, D. Greenberg, M. Keegan, J. Bennett.

OFFICERS

Duke .....George Vivian
Chancellor .....Jack Bennett
Scribe .....Pete Atkinson
Recorder .....Cam Brown
Faculty Advisor .....Prof. J. G. McCaslin

The Copper Guard was first organized on the Montana School of Mines campus in the spring of 1935. In 1937, the Copper Guard was admitted to the Order of Intercollegiate Knights, the national honorary sophomore service organization, of which they were members until the fall of 1958.

The Copper Guard is a service organization. Acting in this capacity, the members perform such duties as ushering at school events, serving the picnic lunch and sponsoring the dance during M-Day. At Christmas time, they decorate the trees in front of the dorm.

To raise funds, the Copper Guard maintains pop machines in the Coed Coffee Shop and Main Hall, and sells students movie discount tickets.

New members are chosen each year by the acting Copper Guards from a list of freshmen students recommended by the faculty.

DEBATE

The Montana School of Mines forensic squad has an old and impressive record. In the last decade, it has been a frequent winner of the Montana Intercollegiate Forensic Meet. The squad first rose to prominence under the directorship of Walter T. Scott, now Professor Emeritus. Since that time it has been counted as keen competition, both inside and out-the state. Debate captain this year is Edward Soret, and the Faculty Advisor is Professor Albertson.

Left to right: R. Drain, E. Soret, J. Albertson.

DRAMATICS

Front row, left to right: D. Robertson, B. Varker.

Back row: B. Standard, R. Holmes, E. Shumaker, J. Richardson, R. Nelson, J. Dreyer, M. Becker, J. Ruffatto, A. Mondlak, S. Maddock, D. Cadwell, G. Jones, A. Rule.

This year the MSM drama club presented **The Girls in 509.** It is a comedy that takes place in a no longer fashionable hotel in New York that is being remodeled, when a pair of female recluses are discovered in one of the back suites. They have been there ever since that black night in November, 1932, when Herbert Hoover lost the election. Deliberately cutting themselves off from the outside world, they vowed to remain secluded until a Republican was elected into the White House.

THE GIRLS
IN 509

What can a man give you that
the government can't?

INTERNATIONAL CLUB

The International Club was organized during the second semester of the 1956-1957 school year to promote international understanding among the students of this school. Students from many of the countries of North and South America, as well as South Africa, Arabia, India, Iran, Pakistan, and Sweden, are members of the club.

In addition to its regular meetings, the club holds several meetings which are open to the public. These provide an opportunity for the public to become acquainted with the members, and to become more familiar with the cultures of the various countries represented.

In the spring, the club sponsors an all-school dance.

OFFICERS	FIRST SEMESTER	SECOND SEMESTER
President	Javaid Alvi	Manuel Galup
Vice-President	Manuel Galup	Syed Raza
Recording Secretary	Jeannette Sigurdson	Jeannette Sigurdson
Treasurer	Lennia Favero	Lennia Favero
Faculty Advisor	Prof. R. Smith	

Front row, left to right: D. Pachas, J. Alvi, T. Mantashi, W. Raab, R. Smith, L. Favero, J. Sigurdson, K. Kim;

Back row: S. Raza, F. Pachas, A. Benavides, E. Antuna, H. Woolcott, D. Myung, T. Khan, D. Cadwell and Faculty Advisor Professor Ralph Smith.

International Club

STUDENT WIVES

Front row, left to right: Mrs. A. Mondlak, Mrs. P. Schultz, Mrs. D. McMillan, Mrs. G. Vivian, Mrs. W. Standard, Mrs. M. Maddocks, Mrs. R. Mock, Mrs. R. Laughlin;

Back row: Mrs. J. McCaslin, advisor; Mrs. C. Laity, advisor; Mrs. F. Crowley, advisor; Mrs. W. Enderlin, Mrs. R. Utter, Mrs. R. Dugdale, Mrs. T. James, Mrs. J. Donovan, Mrs. R. Hoy, Mrs. R. Rask, Mrs. W. Callaway.

The Student Wives' organization meets on the second and fourth Wednesday of every month. The purpose of the club is to provide a means whereby student wives may become acquainted. The program include talks and entertainment. During the year the club sponsors various teas, raffles, and bake sales, in order to raise money to expand their activities. The officers are chosen during the first meeting of each semester.

OFFICERS	FIRST SEMESTER	SECOND SEMESTER
President	Mrs. Robert Hoy	Mrs. Donald McMillan
Vice-President	Mrs. C. J. McLaughlin	Mrs. George Vivian
Secretary	Mrs. James Donovan	Mrs. Michael Maddocks
Treasurer	Mrs. George Vivian	Mrs. Robert Laughlin
Social Corres. Sec.	Mrs. Zane Kelly	Mrs. Alex Mondlak
Sponsors	Mrs. E. G. Koch, Mrs. W. T. Scott, Mrs. W. C. Laity, Mrs. F. C. Crowley, Mrs. R. I. Smith, Mrs. J. G. McCaslin.	

M-CLUB

The Montana School of Mines M-Club is an organization of all monogram winners in major sports. In order to remain in the club, the members must attend at least sixty percent of the meetings. The purpose of the club is to organize all major monogram winners who have excelled in football, basketball, baseball, track, and hockey. Its officers are elected for a one-year term. All candidates must have at least a "C" average in order to hold office in the club. The M-Club sponsors a school picnic and sells refreshments at sports events.

Front row, left to right: M. Munoz, D. Rolfe, K. Erickson, W. Tiddy, C. Brown;
Second row: W. Lane, F. Gardner, K. Hemmert, A. Rovig, J. Ceserani;
Third row: P. Atkinson, D. Mahagin, S. Bosch, J. Blake, G. Bronson;
Fourth row: R. Kotow, J. Mazza, D. Trbovich.

MINERAL CLUB

Front row, left to right: D. Trbovich, J. Chor, Z. Kelly, E. Shumaker;

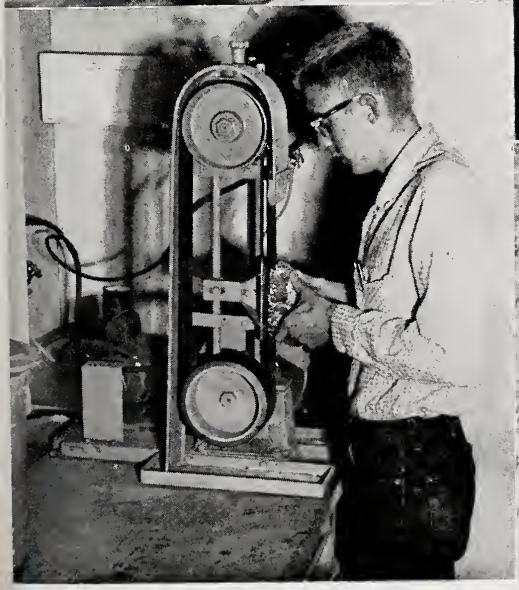
Back row: D. Rasmussen, H. Thompson, B. Dundas, D. Johnson, W. Raab, K. Toegel, C. McLaughlin, J. Delaney.

OFFICERS

President .....Zane Kelly
Vice-President .....Dave Cadwell
Treasurer .....Daniel Trbovich
Advisor .....Prof. W. B. Hall

The Mineral Club gives students the opportunity to participate in organized geology field trips in the Butte area. Throughout the academic year, the club sponsors many field trips and maintains a well-equipped lapidary laboratory for the use of its members. The "rock-hounds" also exhibit their lapidary work and equipment during the annual Engineering Days.

Mineral Club



SIGMA RHO

First row, left to right: W. Cox, K. Hemmert, B. Thompson, B. Standard, D. Rasmussen, S. Brown;

Second row: A. Mondlak, D. Hunt, B. Johnson, D. Rovig, E. Kenison, J. Chor, E. Nicholson, J. Donovan, M. McKinnon, Dave Greenberg;

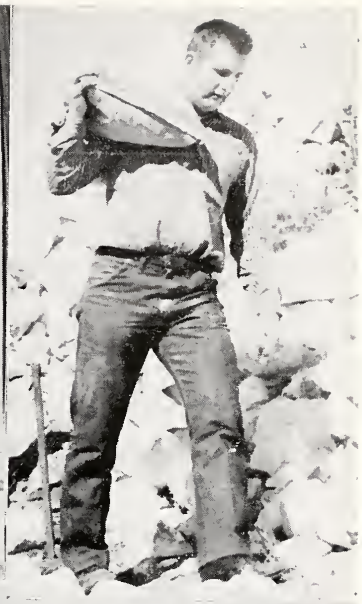
Third row: D. Cadwell, A. Chaky, L. Waters, L. Katcher, A. Winters, B. Hicks, D. Robertson, D. Bork, R. Hoy.

OFFICERS	FIRST SEMESTER	SECOND SEMESTER
Archon	David Rasmussen	William Thompson
Vice-Archon	Allen Rovig	Allen Rovig
Secretary	David Cadwell	William Standard
Scribe	Alex Mondlak	Francis Larvie
Treasurer		
Sgt.-at-Arms	William Standard	Michael Keegan
Advisor	Professor W. E. Cox	

The Sigma Rho fraternity is a professional mining and metallurgical fraternity, whose members are active in all fields of the mineral industry. The Delta Chapter of Sigma Rho was granted a charter in 1927, and has since functioned as a regular part of the Montana School of Mines.

Annual affairs of the fraternity include a pledge dinner, Christmas party and dance, initiation dinner-dance, senior dinner-party, and various smaller parties and get-togethers throughout the year. Speakers of professional status in the mineral industry are invited to speak periodically before the fraternity.

Plans for a fraternity house have been made, and a house fund has been started for that purpose.



W

P

THETA TAU

Front row, left to right: R. Donaldson, A. Boettcher, G. Kravik, D. Cushing;

Second row: D. Wadman, R. Vincelette, D. Roberts, J. Blake, H. Hannah, P. Atkinson, J. Weaver, C. Brown;

Third row: W. Enderlin, J. Williams, K. Erickson, R. Rask, R. Flager, P. Gross.

OFFICERS	FIRST SEMESTER	SECOND SEMESTER
Regent	Harvey Hannah	Art Boettcher
Vice-Regent	David Cushing	Gay Kravik
Scribe	James Thompson	David Cushing
Treasurer	Richard Vincelette	Barry Donaldson
Corresponding Sec.	Douglas Wadman	Robert Applegate
Advisor	Prof. D. H. Harnish	Prof. D. H. Harnish

Theta Tau is a professional fraternity with an interest in pursuance of engineering in its several branches. Theta Tau offers a program which appeals alike to the undergraduate and the alumnus. By the maintenance of active chapters, the fraternity can most effectively aid in developing young engineers. When students' days are ended, it helps them to bridge the chasm between familiar campus life and the world of business and commerce.

ART
SAY'S
ΘT FOR
THE
"MARLBORO"
MAN.
Θ
T

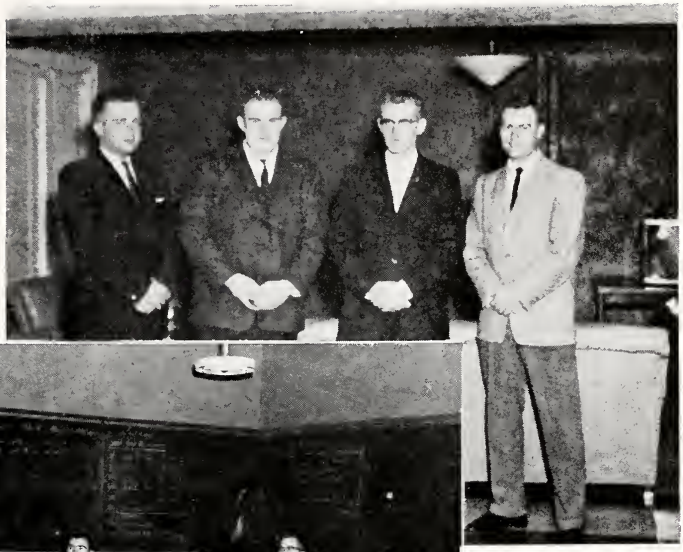
HALL COUNCIL

Left to right: R. Pugh, advisor; G. Kravik, J. Bennett, D. Greenberg, M. Keegan, R. Applegate, A. Rovig, W. Thompson.

The Hall Council was established to promote the interests of the Residence Hall students and to represent their views. The Hall Council also affords services of all kinds to the students of the Residence Hall. It suggests legislative measures and approaches the administration on any matter directly or indirectly affecting student interests.

E-DAY

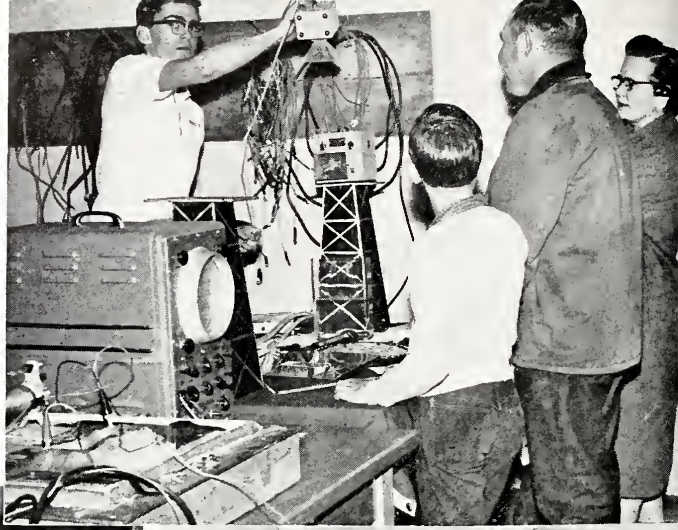
PLANNING BOARD
D. Roberts
J. Thompson
D. Wadman
R. Hoy

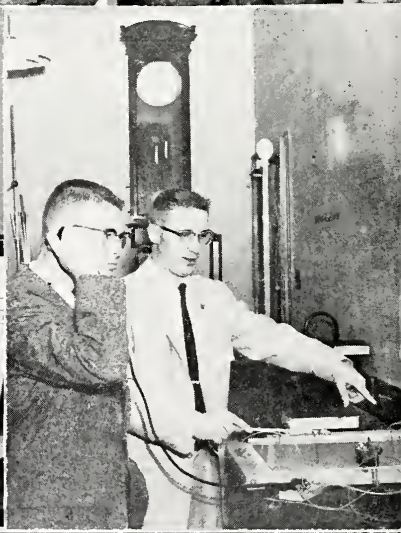


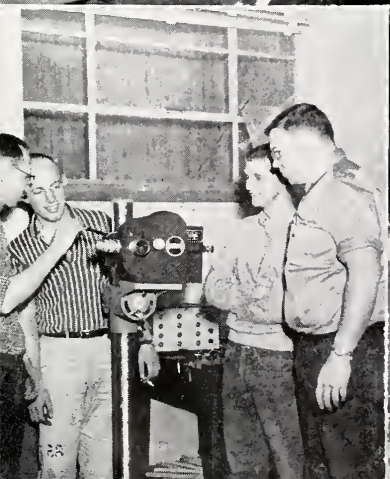
CHAIRMEN
D. Wadman
S. Bosch
D. Roberts
R. Johnson
P. Schultz
J. Donovan
J. Dowis

E-Day, which was held on April 2 and 3, is sponsored by the Anderson-Carlisle Society and is undertaken by the entire student body. Its purpose is to acquaint the public of Butte and the surrounding communities with the type of education and professional background that the Montana School of Mines offers. Displays and lectures are utilized to depict the functions of the various departments.

E-Days



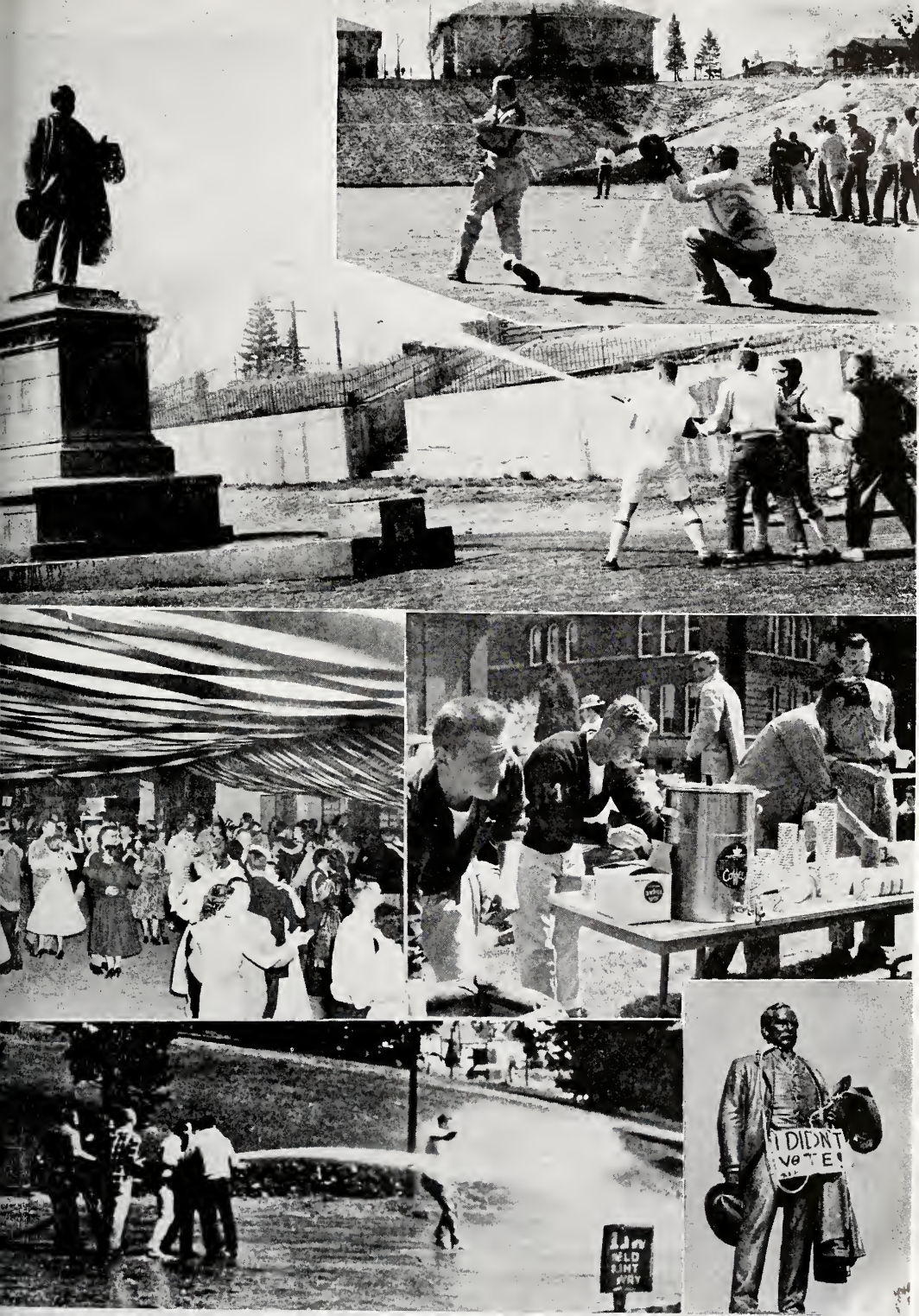




Coca-Cola
10¢

M-DAY

— May 6, 1959 —


I DIDN'T
VOTE!

Kangaroo Court proves Willie Cox all wet.

SPORTS

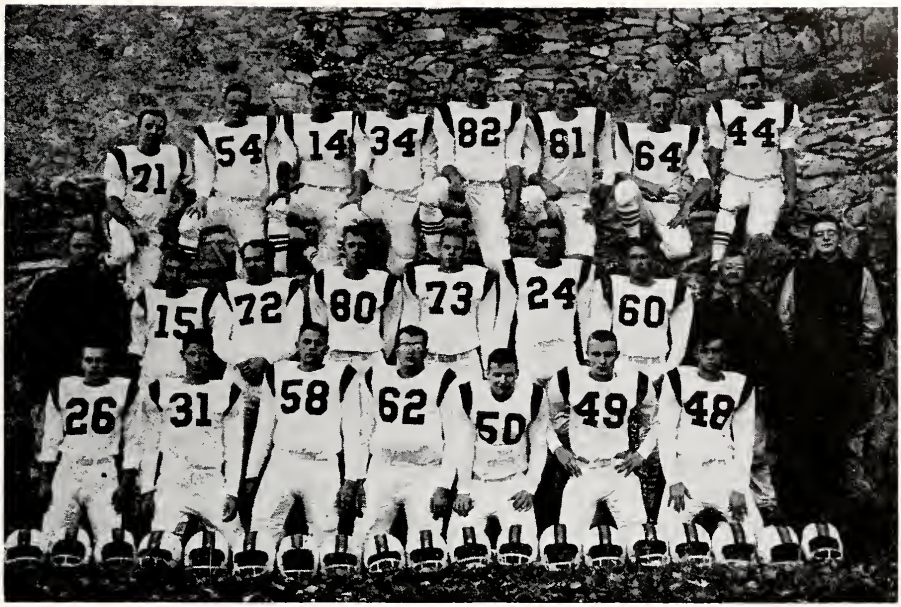
FOOTBALL

Head coach Ed Simonich and his assistant Dan McCarthy.

Although hindered by a scarcity of material, Ed and Dan turned in a fine season's work and they can well be proud of their accomplishments. The men on the team are very grateful for the time and energy both of these men devoted to the team.

Captain Kelly Hemmert

Besides being captain and the only senior member of the '59 team, Kelly was named first-team halfback of the Montana Collegiate Conference football team. In addition to being the leading ground gainer in the conference, Kelly was fifteenth in the nation in small colleges for individual rushing. During the year he won the title of the "One Man Gang of the Orediggers." All through the season he was a great team player and was respected by every member of the team.



OREDIGGER SQUAD FOR 1959—Front row, left to right: J. Burk, S. Mulherin, W. Johnson, M. Moore, R. Goldsworthy, E. Skubitz, L. Judd;

Center row: Coach Ed Simonich, J. Vichorek, J. Walsh, G. Kravik, M. Keegan, K. Hemmert, J. Blake, Dan McCarthy, assistant coach; D. Mahagin, manager;

Third row: L. Judd, W. Tiddy, D. Del Paggio, S. Bosch, M. Hines, P. Atkinson, B. Bilyeu, C. Brown.

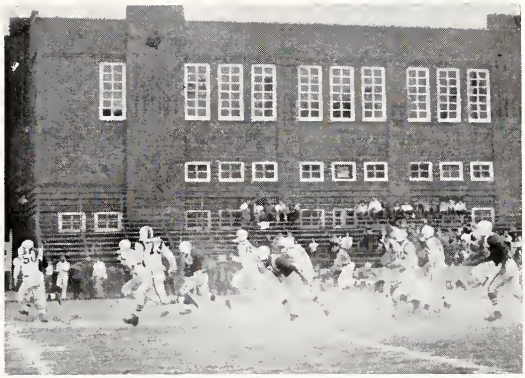
As has been the case for the last several years, the Mines football team was hampered by the lack of manpower. At times during the year the number of players for a game was less than nineteen. For some practice sessions there were less than ten men on the field. With only one senior and two juniors as the backbone of the squad, it was tough to compete against the other teams of the conference who have scholarships for their players. What they lacked in size and number, the Orediggers made up for in spirit. No matter how great the odds against them, not once during the season did the squad quit trying.

This year the team played a five-game season and failed to win a game. In a game against Northern the team was defeated in the last forty-five seconds. Throughout the year the men played several fine games only to be worn down by superior numbers. Many young players showed great promise for the next season.

Looks good from here . . .

Stopped 'em—for once!

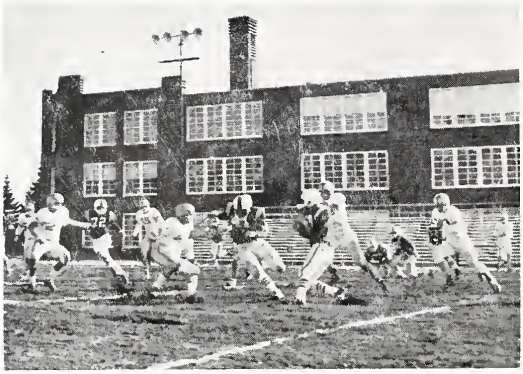
I'm just a poor, lonely boy.



Nice block, Ref!

Belt 'em, Judd!

Why don't WE have some—Al?



Help is on the way.

It's about time to stop!

One-man gang on the loose.

BASKETBALL

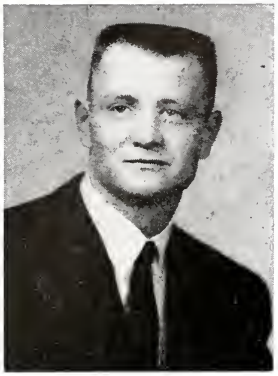
OREDIGGER BASKETBALL TEAM OF 1959-60—Front row, left to right: Don Rolle, Harlan Higinbotham, Jim Conway, Stan Bosch, Bob Dickenson, Bill Thompson;

Back row: Al Herring, Pete Gilligan, Don Mahagin, Webb Garey, Jack Weaver, Tom Liebsch, and Bob Hauck.

The Montana School of Mines basketball team had an unsuccessful season, failing to win a game, but had some close and exciting contests. The Orediggers made a good showing and played some of the conference top teams to close games, vastly improving as the season progressed, and being a threat to all their opponents. The nucleus of the team should be back next year and will prove to be tough competition for their opponents.

BASKETBALL STATISTICS FOR 1959-60 SEASON

	FGA	FGM	FG Pct.	FTA	FTM	FT Pct.	Reb.	Game Avg.	Total Pts.	Game Avg.
Bill Thompson	142	63	44.3	80	44	55.0	128	7.5	170	10.0
Harlan Higinbotham	137	67	49.9	98	53	54.0	122	7.1	187	11.0
Don Mahagin	110	45	40.9	107	66	59.9	137	8.0	156	9.1
Jack Weaver	130	50	38.4	53	28	52.9	119	7.0	128	7.4
Bob Hauck	50	37	74.2	18	8	44.4	49	9.8	82	16.4



Harlan Higinbotham
Captain

Opening conference play

All yours, Webb!!

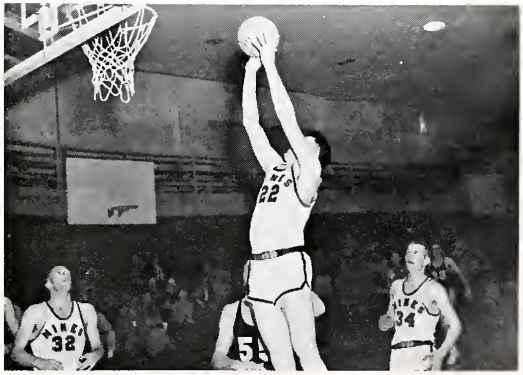
Don't bite, Jack! . . . please.

Dan Cupid visits Orediggers

Arch rivals duel

Awaiting outcome???

Basketball Ballet



Nice going, Don!

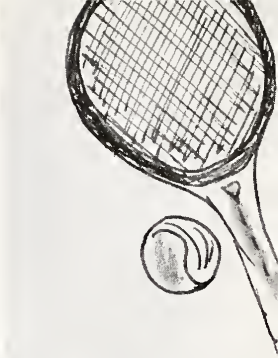
HOCKEY

The Montana School of Mines Hockey team had a short but successful season. The lack of competition in this area has limited the number of games available. The Oredigger pucksters played a tie with Montana State College and won a game for the City Championship defeating the Butte Bomber Independent team by a score of 11-8. The students participating in hockey this year were: Pete Atkinson, Syd Brown, Pete Gross, Ray Kotow, Larry Katcher, Garry Swanson, Dave Robertson, Lynn Waters, Dave Greenberg, Bill Watkins and Jack Williams.

Syd saves again.

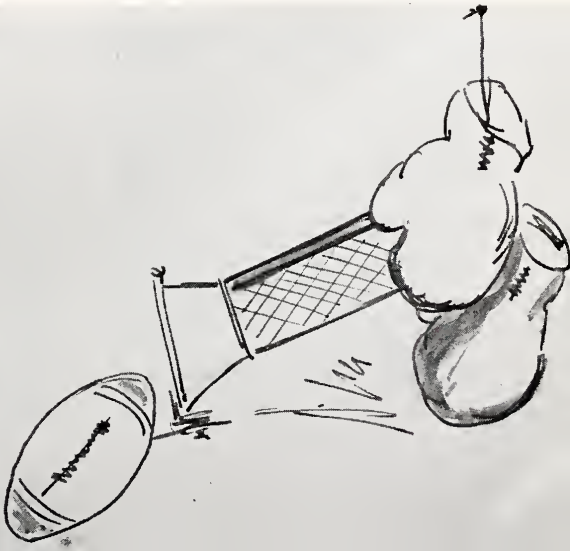
Uranium City Terror!

Gross turns cute trick.



INTRAMURAL SPORTS

"Something for everyone" could well describe this year's intramural sports program. The old standbys, including basketball, volleyball, softball, table tennis and handball, saw bowling, weightlifting, fencing and badminton become sports of increased participation. Individual basketball honors went to the "Goofs", who remained undefeated and untied throughout the season. First place laurels in the volleyball competition were won by Tau No. 1. Table tennis was controlled by Manuel Munoz, while Bob Laughlin, for the second straight year, was the individual bowling champion. Handball singles was won by Marvin Smith.



INTRAMURAL CHAMPIONS, TAU NO. 1

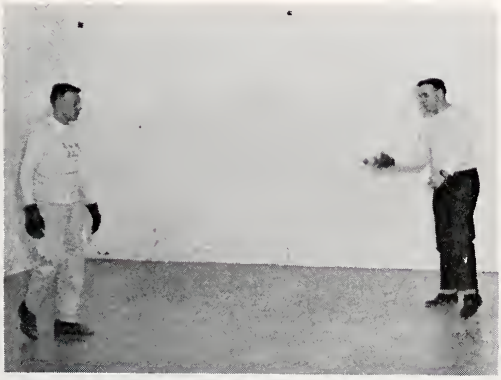
Left to right: J. Thomas, R. Laughlin, M. Keegan, B. Pickard, J. Mazza, J. Bennett.

R. Laughlin, champion kegler.

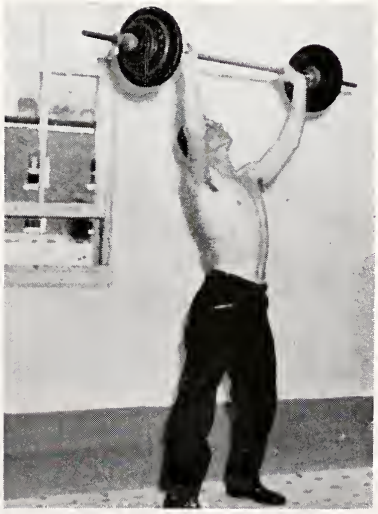
M. Munoz, table tennis king.

This smile is forced.

Thomas dunks two!



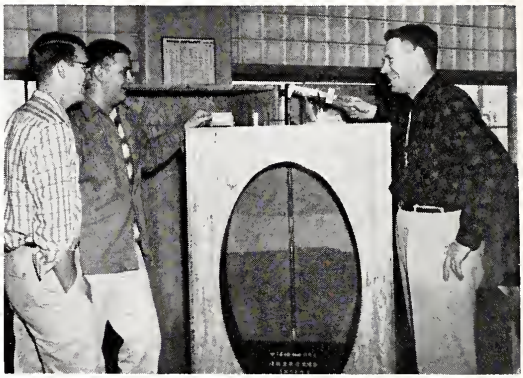
Tell me, do you like English?



How do I get it down, Coach?

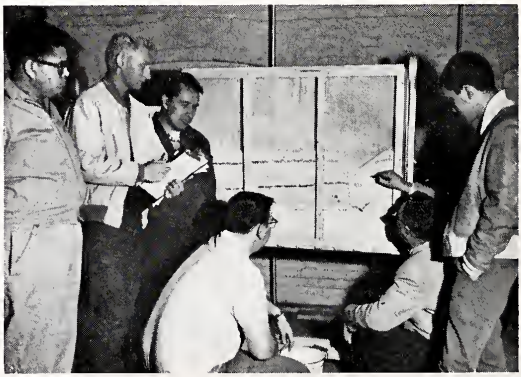
. . . Around the Campus

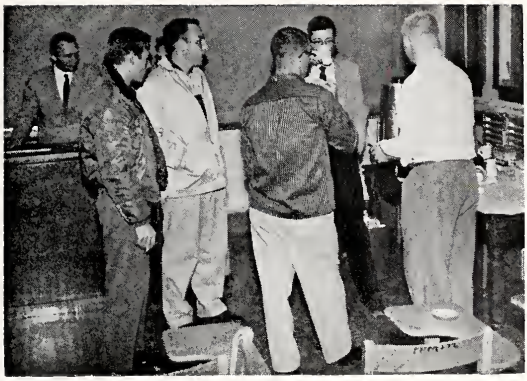
Now, if this was
a still . . . .



Prof. Earll,
you really don't have to . . .

If it drops far enough,
it will hit the bucket.





You mean we have to listen to the speaker, too?

Does anyone have a calorie counter?

Lost?

May I quote
you, Sir?

It's too bad,
this wasn't organized.

Now, if I
could spell.

By chance, a smile . . .

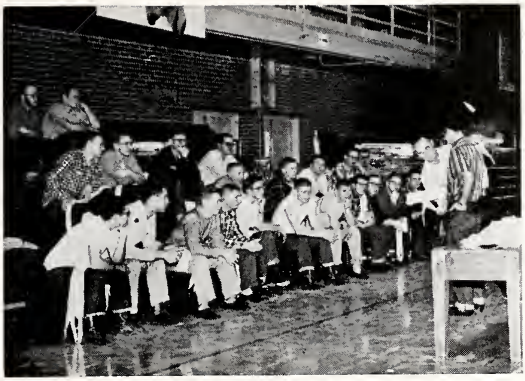
Does he ever shut up?

Now, according to the kit instructions . . . .

Now, my Pappy used to tell me . . .

My view of the world situation . . .

Guess who's got the key
to the beer locker?

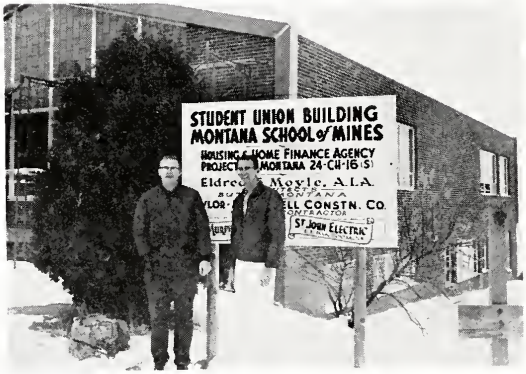


If he looks bad, I'd like to see the other fellow.

All right, you guys, Wake Up!

What happened to the ski lift?

How about that, an unobstructed view of the SUB.



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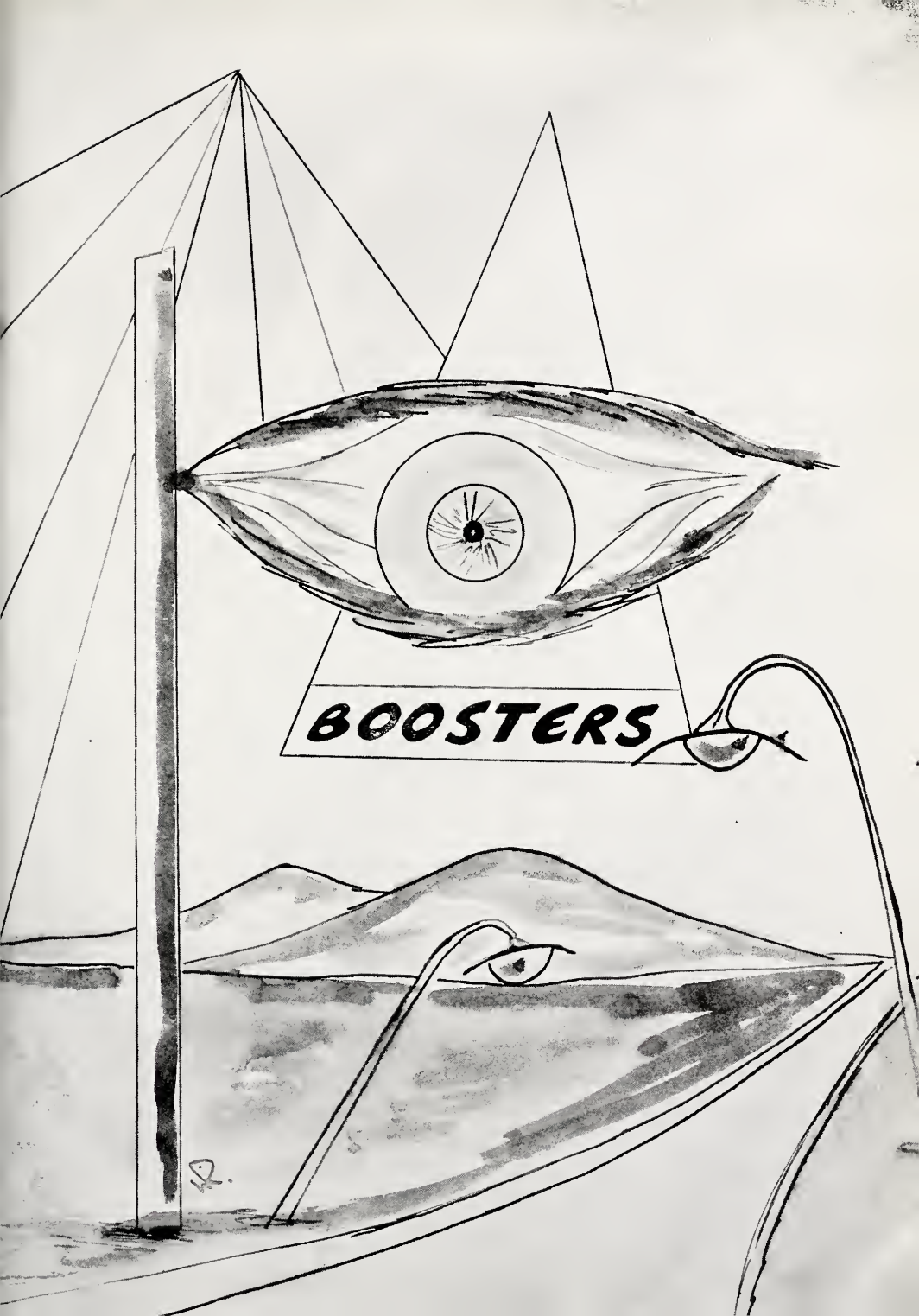
I hear you can see about the same thing in a beauty salon.

All's quiet on the battle front.

Jack, aren't you taking those ghost stories a little too far?

Now, there are them that knows and then there are them that don't.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